



Engraving source book

Your source for all engraving materials,
supplies and fabrication services



The Gravograph total solution

A culture of excellence

Gravograph is a trademark of Gravotech Group, the world's leading manufacturer of marking solutions, offering a full range of equipment: rotary engraving machines, CO₂ and Fiber lasers, micro-percussion and scribing, engraving materials, consumables and services. For over 80 years, Gravograph has remained the industry benchmark thanks to its high quality equipment.

This success is built on three fundamentals:

- A primary focus on our customers' needs,
- Continually delivering state of the art solutions,
- Efficient customer service from over 900 employees worldwide.

Gravograph team members are based in over 40 countries around the world, working around the clock to provide you with the best possible solutions for your marking, engraving and cutting needs as quickly as possible.

The Gravograph difference is founded on:

- A complete solutions approach: the Gravograph product offer lends itself to a full range of personalisation, signage and traceability applications,
- A complete technology solution: machines, software, accessories and consumables,

- A complete technical support solution: readily available field and telephone technical support,
- A complete training solution: training on-site or on Gravograph premises, phone support from engraving experts.

The comprehensive Gravograph product line includes:

- The world's largest and most innovative range of CNC machines,
- State of the art CO₂ and Fiber laser engraving systems,
- Versatile micro-percussion marking systems,
- Innovative software dedicated to the engraving industry, designed to optimise Gravograph machines,
- The most comprehensive range of materials and engravables on the market,
- Responsive in-house fabrication services.

Gravograph develops and markets the world's highest quality and most durable marking solutions, exceeding engraving industry standards for product and service performance. Our quality management system ensures that our products and services are continuously improved, and that all of our team members are dedicated to ensuring the best possible service.



GRAVOTECH

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Our engraving materials: guarantee and commitment

PREMIUM
ENGRAVING
MATERIALS

by

At Gravotech, quality is much more than a norm or a concept: it is a state of mind driven by continuous improvement.

This explains why most of our worldwide-known brands such as Gravoply™, Metallex™, Gravoglas™ 2-Plex™ or Gravotac™, have become synonymous of quality and are a reference for competitors to match.

We are committed to respect these values raised over the past 60 years and do our utmost to meet your most demanding requirements.

To do so, we implemented a Gravograph Quality Charter, which covers a number of technical characteristics that we want respected for our products and ranges:

GRAVOGRAPH 



THE CHOICE IN EACH PRODUCT RANGE

Our wide material range included over 900 references in stock, specially developed for engraving and cutting. "Surface" or "Reverse" engraving, laser marking or cutter engraving, all our ranges of plastic, metal or stratified materials are available in a spectrum of colours, thicknesses between 0.09 mm and 10 mm or .004" and .40" according to the products, and various finishes (matt, glossy, satin, textured, metallic, brushed). The great majority of our materials is also compatible for digital printing.

For you, this is the guarantee to find the right product for your application.

Thanks to our production units in the United States and in Europe, we are able to offer you custom-made solutions (colour, finish, thickness, etc.), even for small quantities. Make sure you contact us!

OPERATING RECOMMENDATIONS AND USE CONDITIONS

Gravotech warrants that its product comply with its technical specification within normal condition of use, without any other warranty including without being limited to any other warranty of merchantability, performance or suitability.

Gravotech warranty covers consumables product for a one (1) month period as from invoice date. The consumable warranty only covers manufacturing defect but scratch and colorimetric variation are expressly excluded from the warranty coverage.

Technical specifications result from data and technical report raised from suppliers or from Gravotech or external independent laboratory studies. Consequently each end user shall perform appropriate testing under real conditions of use to ensure consistency and adequacy of the product to its intended specific purpose and needs. Out of standard conditions of use as well as harsh conditions such as for example UV, hygrometry, salinity or temperature specifics shall be taken into account to avoid any product deterioration.

End User shall be liable regarding its own testing results and therefore its final decision regarding suitability of the product according to Gravotech specifications and recommendation.

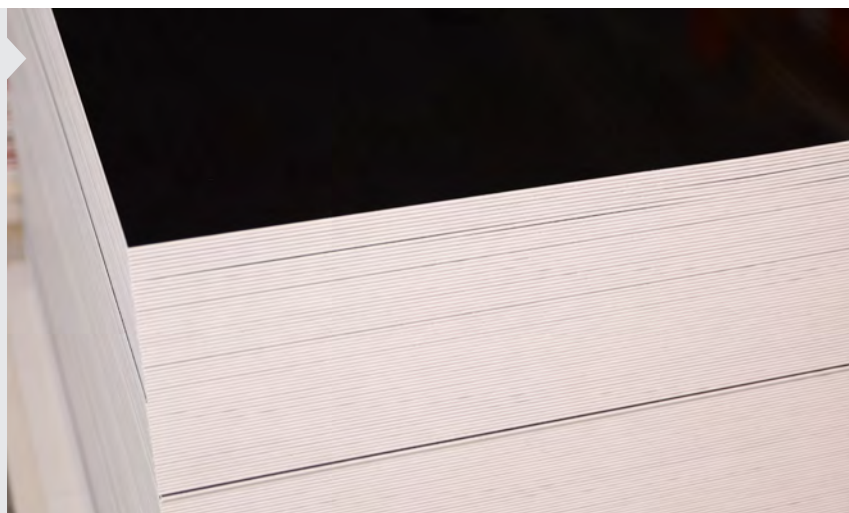
RAW MATERIALS

Our materials are issued from a selection of the best suppliers worldwide, capable of offering the highest guarantees in terms of organisation (ISO*).

Our ABS and acrylics are pure and selected among the best grades.

Each component is subject to careful selection process taking into consideration normative and environmental obligations (RoHS**, REACH***).

For you, this guarantees the respect of all obligations and requirements demanded by your customers. We will provide written statements on simple request.



COLOURS

Colour rendering and consistency from one production batch to another are particularly sought after by all graphic arts professionals. UV resistance is an obligation for materials in contact with light, especially for outdoor applications. To enable you to commit in total safety, we set our expectations beyond market standards. Our components selection as well as sourcing decisions are made accordingly. Our operational teams make regular spectral colorimeter checks to measure colour differences: we compare the light reflected on a random sample with our "Golden Sample". This measurement highlights colour discrepancy (or " ΔE ") and opacity. **For you, this guarantees irreproachable colour and best hold of the material in time.**



05

SIZES, THICKNESS AND FLATNESS

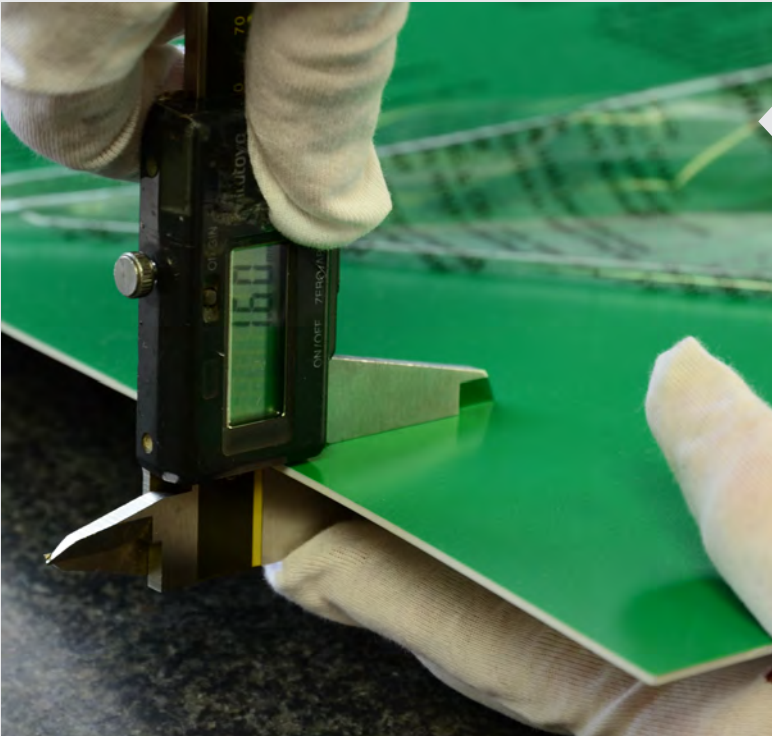
Each material sheet is subject to tight squaring at 0.25 mm/metre (.01"/yd).

Generally, our plastic material sizes are even fairly higher than the dimensions announced.

For you, this is the guarantee to benefit from the entire format actually purchased, even if the plate is clamped on the edges.

The thickness of the different layers making up our materials is finely calibrated, and our recipes are perfectly mastered and executed by our engineers and technicians. For Gravoply™ 2, Metallex™, Gravoply™ Laser and Gravoply™ Ultra: the top coat is only a few microns thin. **For you, this is the possibility to achieve extremely fine and aesthetic engraving, minimise the production of chips or fumes and take advantage of your engraving machine's highest speed and productivity, be it mechanical or laser powered.**

Gravoply™ 1, Gravoglas™ 2-Plex™ and even Gravotac™: different layers calibrated at 250 microns are assembled by hot pressing in our workshops. Our products are not co-extruded, as this technique cannot guarantee regularity in thickness or material flatness. To obtain the best possible flatness, this "laminating" phase is made in very small batches, and even sometimes by the unit! **For you, this is the certainty to achieve accurate and regular depth engraving, as well as quality milling jobs on the entire surface of the material sheet.**



PROTECTION, PACKAGING, TRACEABILITY

Our materials are protected individually by a "Gravograph"-personalised, resistant semi-adhesive protection film. This ensures that engraved or milled surfaces are preserved from pollution or alteration.

Each material sheet is also labeled with its reference, designation and production batch number. This ensures our Quality assurance system has the traceability information that is required in case of defect. Our packaging products are adapted to transport constraints all over the world and have proven their sturdiness.

For you, this is the guarantee to buy an original product and benefit from our material's "Premium" quality until it reaches your workshop.



The particular care we take in terms of product traceability enables us to consider our customers and partners' feedback and therefore continue to improve, for the benefit of all.

This is what we call continuous improvement, the drive of our organisation and spirit of our company.



* ISO: International Standard Organisation

** RoHS: Restriction of the use of certain Hazardous Substances

*** REACH: Registration, Evaluation and Authorisation of Chemical substances

Promotion tools: Gravograph can help you!

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Gravograph offers a variety of Marketing Tools to help you select and promote our engraving materials.



CATALOGUE

E-CATALOGUE

WEBSITE

SWATCH BOOKS : CLASSY VERSION

Ref. 71930

The necessary tool to choose precisely what you need from real material samples.

Including Plastics Laser/Rotary; Plastics Rotary; Metallics; in addition to the real material sample, it also presents the applications, benefits, specifications & capabilities

Flyers: pages of the Classy version available individually.

Plastics Laser/Rotary	
Gravoply™ Laser	71943
Gravoply™ Ultra p.1+2	71944
Gravoply™ 2	71945
Gravoglas™ 1	71946
Acrylic	71947
Gravotac™ Exterior	71948
Flexilase™	71949
Gravostrat™	71950
Rubbalase™	71951

Plastics Rotary	
Gravoply™ 1 p.1+2+3	71952
Gravofoil™ / Gravoply™ 3C	71953
Gravoglas™ 2Plex™ Surface p.1+2	71954
Gravoglas™ 2Plex™ Subsurface p.1+2	71955
Gravotac™	71956

Metallics	
Gravolase™ Metallics	71957
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Gravostrat™	71959
Gravoxal™	71960
Gravoxal™ Premium	71961
Gravoxal™ (US)	71965
Gravobrass™ / Gravometal™	71962
Colored Aluminum / Trophy Brass / Coloured Steel	71963
AlumaMark® / DuraBlack®	71964



SWATCH BOOKS : NOMAD VERSION

The necessary tool to choose precisely what you need from real material samples.

In plastic folders

- Plastics Laser/Rotary: Ref. 71932
- Plastics Rotary: Ref. 71931
- Metallics: Ref. 71933



CUSTOM FABRICATION SERVICES

Discover our custom fabrication capabilities from real engraved samples.

Ref. 68343



INDUSTRY SOLUTIONS

Discover our industry solutions from real engraved samples.

Ref. 74699



DISPLAY KIT

Set of displays presenting our entire range of engraving materials thanks to real samples. Can be wall-mounted or used as trestles in your shops or showrooms.

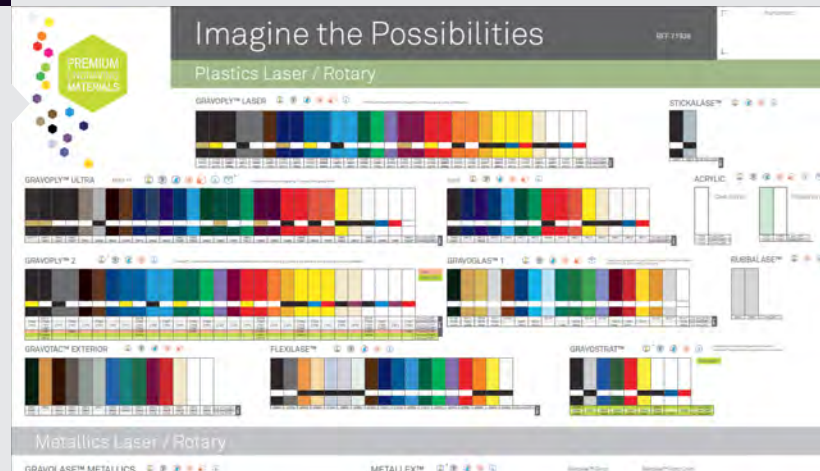
On request



POSTER

Wall poster with overview of our whole range of materials.

Ref. 71938



Custom fabrication services

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MATERIALS

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Save time and money by using our wide range of fabrication services which will meet your most demanding needs.

CUT-TO-SIZE

Custom fabricated shapes made to your specifications. Shape and size on demand (rectangle, circular, oval, strips, special shapes).



Signs with concave corners



Circular blanks



Cutting



Oval blanks



FINISHING

Bevelling

Bevelling is the cutting of an attractive angular edge to create a border. Our standard bevel is at 45° angle.

Drilling holes

To accommodate your mounting needs in plastic and metal.

Holes are positioned according to your specifications. When measuring holes, follow the illustrated example below.



1. From the centre of one hole to the centre of the other hole.
2. From the centre of the hole to the top edge of the material.
3. From the centre of the hole to the side edge of the material.
4. Diameter of any counter-sunk holes to be drilled (for mounting materials and wall holders with flat head screws).





Rounded / concave corners

We offer a wide selection of different radial for corners.



Bending

Plastic materials (except phenolic) can be bent into stand-up display signs, badges, etc. Maximum length of the bend is 500 mm (20").

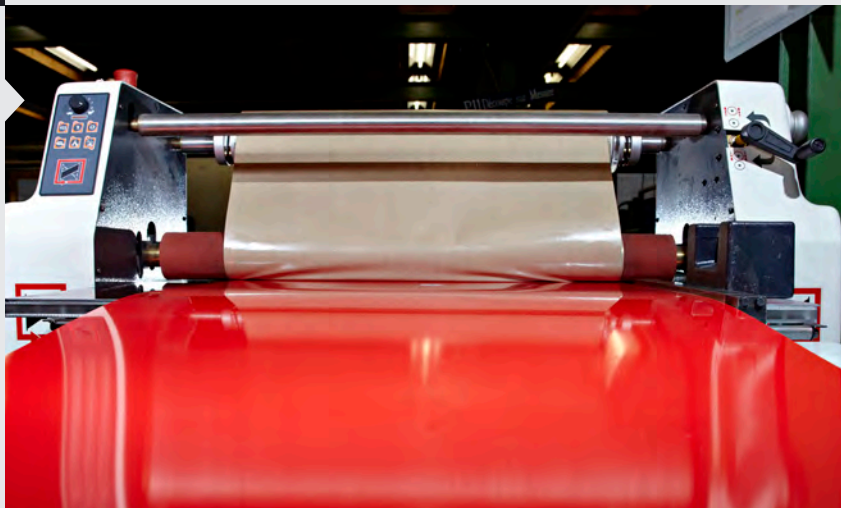
BACKING

Adhesive

We can apply adhesive backing for badges, nameplates, strips and sheets. Adhesive backing is applied before cutting material.

Magnetic

For temporary mounting of info tags on metal shelves, we can apply magnetic backing to plates, strips and sheets.



BADGES

We can custom fabricate your plastic or brass sheet badge. Specify: shape, size and material, fastener, fused, cemented or bonded hardware; rounded or square corners; bevel or no-bevel finished edges.

Hot-stamping / Silk-screen / Digital printing
To add a coloured logo or inscription on badges, ID plates, etc.



Types of fasteners for heat fusing in our workshop

Quotation

For all these services, please ask your Gravograph partner for a quotation!

Lead-time

Fabrication times are only estimates, and may vary according to production load.

Return policy

All fabrication orders are non-returnable due to their custom nature. Please ensure that you provide accurate information when placing your fabrication order.

Custom materials on demand

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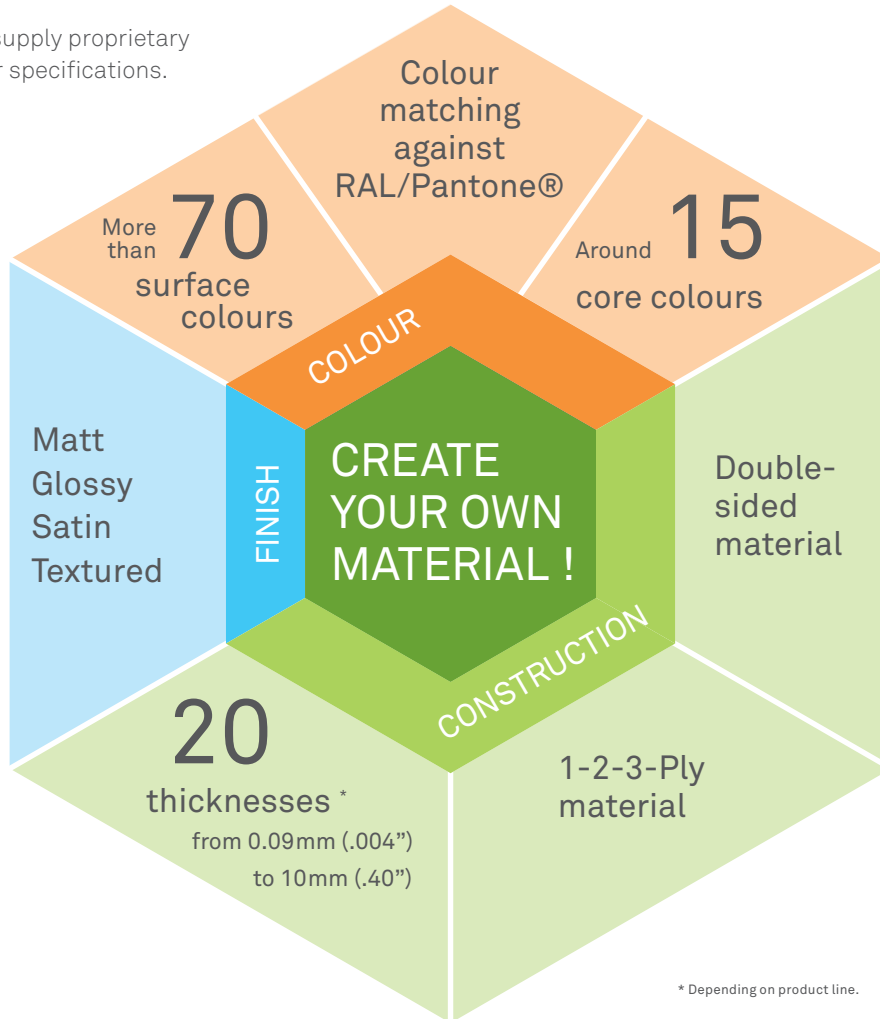
by

GRAVOGRAPH 

CANNOT FIND THE PLASTIC PRODUCT YOU ARE LOOKING FOR?

Gravograph is able to supply proprietary material based on your specifications.

CHOOSE:



COLOUR MIXING

Gravograph provides any colours combination!

Choose engraving sheets in the colour combination of your choice. Just mix any existing surface colour with any existing core colour for the following material ranges:

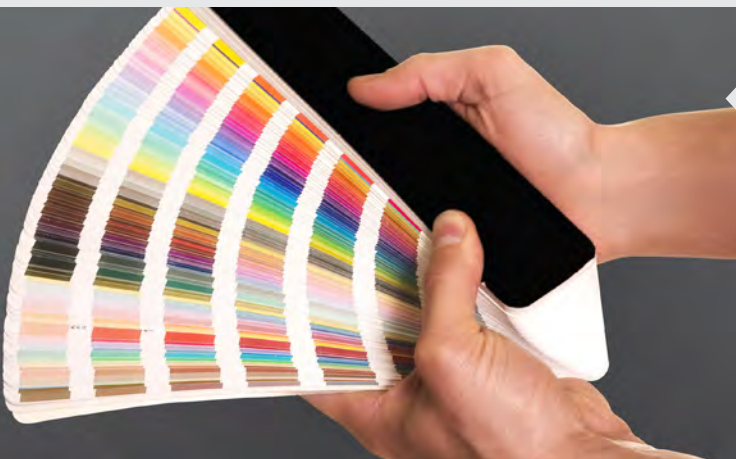
- Gravoply™ Laser
- Gravoply™ Ultra
- Gravoply™ 2
- Flexilase™
- Gravoply™ 1
- Gravoglas™ 2-Plex™
- Gravalase™ Metallics
- Metallex™



COLOUR MATCHING

Do you require a specific surface colour (to match your graphic charter, logo, etc.)?

Indicate a RAL, Pantone® or NCS® code and we will apply this colour over the ABS or acrylic base of your choice.



DOUBLE-SIDED MATERIAL

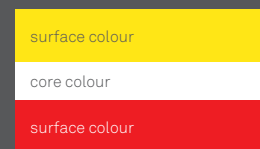
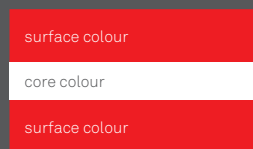
Looking for double-sided material?

Contact us and we will produce your double-sided sheets in:

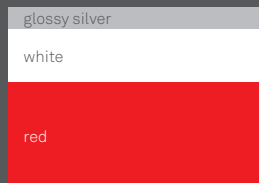
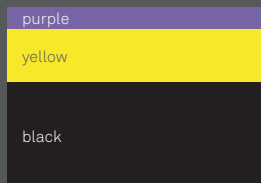
- Gravoply™ Laser
- Gravoply™ Ultra
- Gravoply™ 2
- Gravoply™ 1
- Gravoglas™ 2-Plex™
- Gravalase™ Metallics
- Metallex™

Same surface colour on both sides

Different colour on each side



Examples:



GRAVOPLY™ 3C

Our Gravoply™ 3C range offers the most used colours. However we can produce up to 1,500 colour combinations on demand.

SPECIFIC THICKNESSES

Your application requires a specific material thickness?

Let us know your requirements and we will produce a material adapted to your needs.

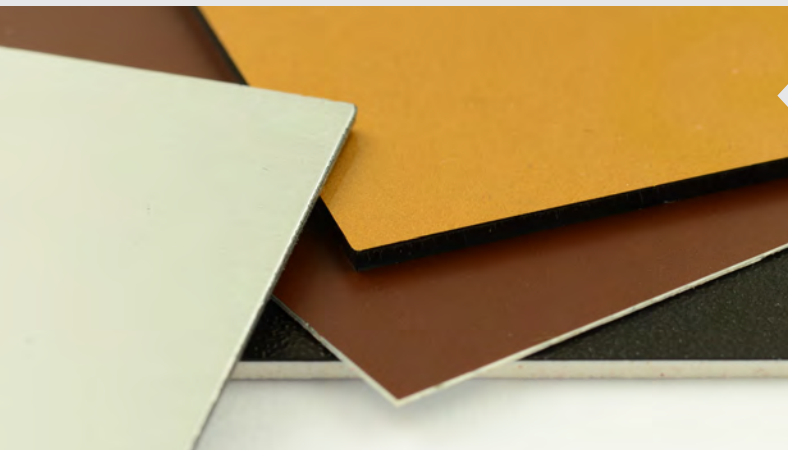


SURFACE FINISH

Choose from our standard matt, glossy, satin or textured surface finishes; we can apply them to the majority of our plastic materials.

Examples:

- Gravoply™ Laser red/white (49988) has a matt finish but can be manufactured with a glossy finish on request.
- Gravoply™ Ultra blue/white (18990) has a matt finish: ask for it with a textured finish.



SPECIFIC CHARACTERISTICS

You are looking for a product to meet very specific characteristics, for a particular application and environment? Describe your requirement and we will find the best suited solution to your application.

Quotation

For all these services, please ask your Gravograph partner for a quotation!

Lead-time

Fabrication times are only estimates, and may vary according to production load.

Return policy

All fabrication orders are non-returnable due to their custom nature. Please ensure that you provide accurate information when placing your fabrication order.

Selection guide

		Gravoply™ Laser	Gravoply™ Ultra	Gravoply™ 2	Gravoply™ 1	Acrylic	Gravotac™ Exterior	Flexlase™	Sticklelase™	Gravostrat™	Rubbalase™	Gravoply™ 1	
Engraving system	CO2 laser	■	■	■	■	■	■	■	■	■	■		
	Fibre laser												
	Rotary	■	■	■	■	■	■	■	■	■		■	
	UV Print	■	■	■	■	■	■	■	■	■		■	
Applications	Funeral plates: urns plates - Coffin plates - Head stones .../...			■	■			■	■			■	
	ADA / DDA / Signs with Braille dots						■						
	Small labels: Badges - Door plates - Trophy plates - Luggage tags .../...	■	■	■				■	■			■	
	Small signs: Badges - Door plates - Sport tags - Awards - Museum art tags .../...	■	■	■		■		■	■			■	
	Safety signs - Technical signs	■	■	■							■		■
	Large Signs - Flow charts - Directories - Location maps - Directions - Professional plates	■	■	■	■	■	■						■
	Signs - Letter cut-outs (signage / routing / prototyping) - POP displays - Acrylic work				■	■	■	■					
	Signs - Metal Cut-outs (signage / routing / prototyping)												
	Rating plates (mass production) - Industrial ID plates								■				
	Electrical plates - Push-button, cable tags	■	■	■									■
	Front panels / Flow charts	■	■	■	■						■		■
	Rubber stamps											■	
Specifications	Surface finishing	Matt	■	■	■		■	■	■	■		■	
		Brushed						■					
		Glossy				■	■		■		■		
		Satin		■									■
		Textured											
	Composition	Acrylic	■	■		■	■	■	■	■			
		ABS			■								■
		Aluminium											
		Brass											
		PVC											
Capabilities	Phenolic									■			
	Rubber										■		
	Surface engraving	■	■	■		■	■	■	■	■	■	■	
	Subsurface engraving		■		■	■	■						
	CO2 laser cutting	■	■		■	■	■	■	■		■		
	Interior	■	■	■	■	■	■	■	■	■	■	■	
	Exterior	■	■		■	■	■						
	Shear	■	■	■				■	■			■	
	Saw		■	■	■	■	■			■		■	
	Silk-screen	■	■	■	■	■	■		■	■		■	
	Hot-stamp	■	■	■	■	■	■					■	
	Heat bending	■	■	■	■	■	■					■	
	Scratch resistant		■	■	■	■	■			■		■	
	Flexible	■	■	■			■	■	■			■	
	Break resistant			■		■	■		■		■	■	
UV resistant	■	■		■		■					■		
Min. temperature	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	-60°C (-76°F)	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)	
Max. temperature	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	80°C (176°F)	200°C (392°F)	180°C (356°F)	80°C (176°F)	80°C (176°F)	
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To quickly identify and select the right material for your application needs, look out for the symbols below indicating the main features of each Gravograph material range:



CO₂ Laserable

Generally applies to acrylic core materials as well as rubber, which can be CO₂ laser engraved and cut. Also suitable for coated or anodised metals. ABS materials can also be CO₂ lasered, although cutting results and laser quality may vary according to materials and/or colours. Apart from a few exceptions, most CO₂ laserable materials are also rotary engravable.



Fiber Laserable

Generally applies to metals, either bare or coated. A wide variety of plastics can also be fiber lasered.



Rotary engravable (with a rotating cutting tool)

The most versatile engraving technology. Suitable for most plastic materials and metals.



UV Print

UV LED printing material.



Indoor use

Material designed for indoor use which does not require resistance to UV light or changes in the climate.



Outdoor use

Within the limit of technical specifications provided by Gravotech and compliance to standard conditions of use, materials are designed to be resistant to climate and UV variation without significant alteration to its features. Due to wide variety of use conditions, Gravotech cannot assert material shelf-life.



Surface engraving

1-ply, 2-ply or 3-ply materials are either lasered or engraved to expose the core of the material, thereby giving a colour contrast between cap (surface layer) and core (base colour).



Subsurface engraving (also known as reverse engraving)

Applies to 1-ply and 2-ply clear base materials.
The material is lasered or engraved from the back.
Once lasered or engraved, the characters and logos can be back-painted to achieve aesthetic colour contrast.

No clamping, no tape, no vacuum table

A real **time saver** for your engraving and cutting jobs.

- All kinds of plastic or metallic materials in variable thickness **secured effortlessly**
- Also suitable to hold small items: medals, tags, labels, etc.
- Ideal for **engraving** and **cutting** depending on materials
- **No oily residues** after use

The indispensable fixing accessory for your daily jobs

Flexible material placed on your engraving / marking table* to maintain the material to be engraved or cut into place.

* For IM4, M20, IS200 & M40 use a support table, see below for more informations.

Easy to use



1. Place Gravogrip™ on your table

2. Position the material and press down

3. Engrave!

Gravogrip™ sizes

Choose the size that will best suit your machine's working area.

67252	610 x 610 mm (24" x 24")
71052	610 x 305 mm (24" x 12")
45696	310 x 215 mm (12.20" x 8.46")
71053	305 x 200 mm (12" x 7.87")
71054	225 x 80 mm (8.85" x 3.15")
70996	120 x 100 mm (4.72" x 3.93")
72027	120 x 80 mm (4.72" x 3.15")
71056	cut-to-size on request

For smaller size machines, use one of the support tables* specially designed to that effect.

	Gravogrip™ support table*	Delivered with replacement mat
72024	for IM4 machines	ref. 72027 (120 x 80 mm) (4.72" x 3.15")
70997	for M20/M20XL machines	ref. 70996 (120 x 100 mm) (4.72" x 3.93")
71116	for IS200 machines	ref. 71054 (225 x 80 mm) (8.85" x 3.15")
45697	for M40 machines	ref. 45696 (310 x 215 mm) (12.20" x 8.46")

* All support tables delivered with one piece of Gravogrip™ to fit.

See also p.112 *Jigs & Holding Devices*.

Minimum maintenance

- Cleaning with soapy water



BENEFITS

- UV stable
- Excellent for interior and exterior signage
- A wide range of colours
- Matt finish
- Microthin surface layer for detailed engraving
- Reduce inventory with one material for rotary, laser, indoor and outdoor needs

APPLICATIONS

Architectural signage, industrial signage, labelling, legend plates...

SPECIFICATIONS

Finish	Matt
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The most versatile plastic material: indoor, outdoor, laser and rotary engraving and cutting. One product, one stock, many applications.

You can mix any surface and any core colours on demand.

For custom colours, see Custom materials on demand p.10.



Flexibility and performance for indoor and outdoor applications

surface / core colour	2-ply		
	0.8 mm (1/32")	1.3 mm (.050")	1.6 mm (1/16")
white / red	51047	51006	70005
white / blue	51057	51011	80763
white / black	51017	49971	69991
almond / black	51022	49978	80764
yellow / red	51048	51007	70006
yellow / blue	51058	51012	80765
yellow / black	51018	49973	69992
dark yellow / black	51019	49977	80766
orange / white	51035	51005	80767
orange / black	51020	51001	80768
red / white	51034	49988	69995
red / yellow	51055	51009	80769
burgundy / white	51043	49997	70004
burgundy / gold	51062	51016	80770
purple / white	67005*	67006*	80771*

*Subject to premature colorfading



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Flexibility and performance for indoor and outdoor applications

surface / core colour	2-ply	
	0.8 mm (1/32")	1.3 mm (.050")
apple green / white	51042	49996
pine green / white	51039	49995
sky blue / white	51037	49990
sky blue / black	51021	49979
blue / white	51036	49989
blue / yellow	51056	51010
air force blue / white	51038	49991
air force blue / gold	51061	51015
brown / white	51044	49993
grey / white	51046*	49992*
grey / black	51023*	49974*
black / white	51033	49987
black / yellow	51049	51008
black / gold	51060	51014

*Subject to premature colorfading

BENEFITS

- UV stable
- Excellent for interior and exterior signage
- A wide range of colours
- Matt finish
- Microthin surface layer for detailed engraving
- Reduce inventory with one material for rotary, laser, indoor and outdoor needs

APPLICATIONS

Architectural signage, industrial signage, labelling, legend plates...

SPECIFICATIONS

Finish	Matt
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The most versatile plastic material: indoor, outdoor, laser and rotary engraving and cutting. One product, one stock, many applications.

You can mix any surface and any core colours on demand.

For custom colours, see Custom materials on demand p.10.

The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- Laser engraving and cutting
- Excellent for interior and exterior signage
- Unique 0.05mm (.002") cap layer for detailed engraving
- Excellent for photo lasering
- Thickness 0.25 mm (.01") with backing adhesive on demand.

APPLICATIONS

Badges, awards plates, interior and exterior signage

SPECIFICATIONS

Finish	Matt
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Laser and rotary engraving, a versatile material for indoor and outdoor applications. For custom colours, see Custom materials on demand p.10.



Matt **

surface / core colour	2-ply	
	0.5 mm (.020")	1.6 mm (1/16")
clear / white	18965*	19009*
white / red	18997	18997
white / azure blue	18996	18996
white / black	18946	18984
almond / black	18955	18993
yellow / black	18955	18993
orange / white	19000	19000
orange / black	18949	18987
red / white	18949	18987
red / black	29498	29498
burgundy / white	18980	18980
burgundy / gold	18999	18999
apple green / white	18970	19012
forest green / white	19001	19001
forest green / gold	18998	18998
pine green / white	29491	29491
sky blue / white	70955	70953
blue / white	18952	18990
air force blue / white	29492	29492
navy blue / white	29494	29494
royal blue / white	19015	19015
brown / white	29495	29495
chocolate brown / white	29493	29493
light grey / black	29496	29496
taupe / white	29501	29501
clear / black	18962*	19006*
black / white	18943	18981
black / gold	18976	19004
glossy black / gold	18973**	18973**

* Suitable for subsurface engraving.
** Except 18973 glossy finish.



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Satin

surface / core colour	2-ply	
	1.6 mm (1/16")	2.4 mm (3/32")
white / red	29514	29514
white / azure blue	29518	29518
white / black	29507	29507
almond / black	29531	29531
yellow / black	29511	29511
orange / white	29521	29521
red / white	29512	29512
red / black	29529	29529
apple green / white	29513	29513
forest green / white	29515	29515
sky blue / white	70954	70954
blue / white	29510	29510
air force blue / white	29522	29688
royal blue / white	29519	29519
black / white	29508	29687

BENEFITS

- Laser engraving and cutting
- Excellent for interior and exterior signage
- Unique 0.05mm (.002") cap layer for detailed engraving
- Excellent for photo lasering
- Thickness 0.25 mm (.01") with backing adhesive on demand.

APPLICATIONS

Badges, awards plates, interior and exterior signage

SPECIFICATIONS

Finish	Satin
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

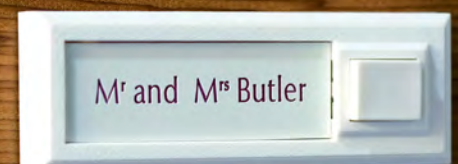
CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

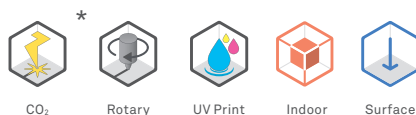
Laser and rotary engraving, a versatile material for indoor and outdoor applications. For custom colours, see Custom materials on demand p.10.

The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- Microthin surface layer
- Perfect for small characters and detailed logos
- Gravoply™ 2 Gloss has an extra durable, scratch resistant, glossy cap



APPLICATIONS

Badges, identification plates, interior signage

SPECIFICATIONS

Finish	Matt
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

You can mix any surface and core colours on demand. Double-sided products are also available.

For custom colours, see Custom materials on demand p. 10.

surface / core colour	2-ply					
	0.5 mm (.020")	0.8 mm (1/32")	1.5 mm (1/16")	2.4 mm (3/32")	1.5 mm (1/16")	3.2 mm (1/8")
white / red	21857	21928	23981			
white / burgundy		21874				
white / azure blue	21841	21908	21973			
white / black	53218	21850	21919	21982	23977	22010
almond / burgundy			29709			
almond / black	21855	21926				
yellow / red	21845	21913				
yellow / azure blue	21828	21896				
yellow / black	21863	21936	21995	23982	22013	
dark yellow / black		21925				
orange / white		52205				
red / white	53219	21851	21921	21983	23978	22016
red / yellow		21910				
burgundy / white		21932				
purple / white	67007					
apple green / white				21838	21905	
pine green / white				21865	21938	23983
pine green / yellow				21866	21916	
sky blue / white				21861	21934	
sky blue / black				21827	21895	
blue / white	53220	21852	21923	21984	23979	22012
blue / yellow				21911	21911	
air force blue / white				21907	21907	
brown / white				21858	21930	
chocolate brown / white				21876	21876	
grey / white				21856	21927	23980
grey / black				21915	21915	
black / white	53217	21849	21917	21981	23976	22009
black / yellow				21866	21940	29732

* Gravoply™ 2 products have a laserable foil cap but engraving colour results can vary according to the reference. Vector cutting is not recommended.



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





surface / backing colour	2-ply	
	1.5 mm (1/16")	3.0 mm (1/8")
clear / white	18141*	18193
clear / light grey	18177*	18264
clear / golden yellow	18130*	18264
clear / yellow		18217
clear / red	18201	18267
clear / burgundy	18232	18287
clear / purple	18132*	
clear / moss green	18136*	
clear / garden green	18229	18285
clear / green		18282
clear / light blue	18179*	
clear / sky blue	18214	18273
clear / blue	18207	18270
clear / brown	18134*	
clear / silver	18171	18244
		18293

surface / backing colour	2-ply	
	1.5 mm (1/16")	3.0 mm (1/8")
clear / gold	18168	18235
clear / old gold	18174	18252
clear / black	18138*	18183
		18261

BENEFITS

- Laser engraving and cutting
- Excellent UV resistance
- A fine silk-screened layer
- Resistant to chemical agents
- Subsurface engraving: produce multi-colour signage with paint fill
- Easy to keep surface clean
- Interior and exterior use

APPLICATIONS

Interior and exterior signage, professional name plates

SPECIFICATIONS

Finish	Glossy
Composition	Acrylic
Engraving depth	0.2 mm (.008")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Excellent material for both rotary and laser engraving.

You can use Gravograph recommended paint to colour any GravoGLAS™ 1 subsurface engraving. See p.55.

For custom colours, see Custom materials on demand p.10.

* Conventional colours for the identification of pipes in the industrial sector (AFNOR NF X. 08-002 and INRS ED 88 norms).

Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- Laser engraving and cutting
- Glossy or frosted finish
- Excellent for clear signage
- Laser and rotary engravable
- Interior and exterior use

APPLICATIONS

Interior and exterior signage applications

SPECIFICATIONS

Finish	Glossy for clear acrylic, Matt for frosted acrylic
Composition	Acrylic
Engraving depth	-
Full sheet	1 000 mm x 500 mm (39" x 19")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Discover frosted Acrylic for a modern finish, fingerprint and scratch resistant acrylic.



Clear acrylic

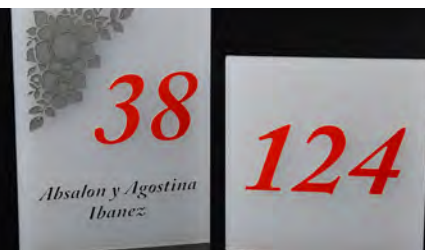
clear	71316	3 mm (1/8")
	71317	5 mm (.20")
	71318	10 mm (.40")

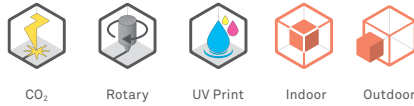
Frosted acrylic

white frost	71319	5 mm (.20")
	71320	8 mm (.31")
green frost	71321	5 mm (.20")
	71322	8 mm (.31")



Printed colours for indication only. Cannot serve as a substitute for real material sample.





	1-ply		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
clear	29918	29935	72083
white	29919	29936	31237
almond	29921	29938	32295
red	29922	29939	31700
burgundy	29923	29940	31738
pine green	29927	29944	31837
teal	29933	29903	
azure blue	29928	29945	31406
silver	29931		
silver grey	29929	29946	32187
slate	29930	29947	32277
chocolate brown	29926	29943	31648
gold	29932		
black	29920	29937	31257

BENEFITS

- Interior and exterior use
- Profile available with or without adhesive backing
- Cut with laser or rotary machines

APPLICATIONS

DDA & ADA compliant, tactile signage

SPECIFICATIONS

Finish	Matt
Composition	Impact modified acrylic
Engraving depth	-
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

The Gravotac™ process :



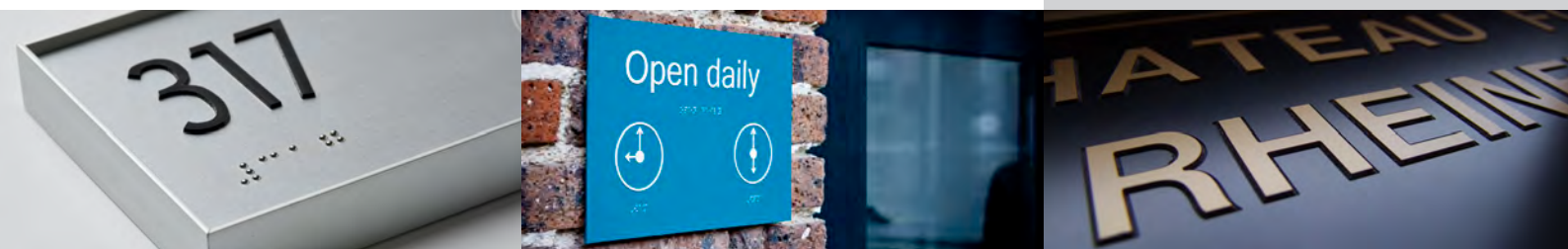
Adhere 0.8 mm (1/32") profile material to 1.6 mm (1/16") or 3.2 mm (1/8") substrate. Engrave using outline font. Peel excess profile material off substrate.

The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.



TECH TIPS

The ideal product for Braille and tactile signs cut with your laser machine. UV stable.



BENEFITS

- Laser engraving and cutting
- Very thin and flexible
- Excellent for labels
- Fine engraving, neat cutting
- Delivered with adhesive backing

APPLICATIONS

Identification labels, trophy plates, labels for curved surface

SPECIFICATIONS

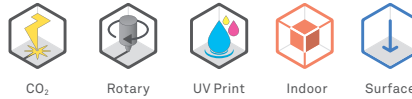
Finish	Matt, Brushed, Glossy
Composition	Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	610 mm x 305 mm (24" x 12")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

A high resolution material, flexible and laserable.
Metallic colours for your trophy plates.
Delivered with adhesive backing.
For custom colours, see Custom materials on demand p.10.



surface / core colour	2-ply	0.25 mm (.01")
white / black	66984	66984
yellow / black	66985	66985
orange / black	66986	66986
red / white	66997	66997
purple / white	67002	67002
apple green / white	67001	67001
pine green / white	71673	71673
sky blue / white	67000	67000
blue / white	71670	71670
air force blue / white	71671	71671
brown / white	67004	67004
brushed aluminium / black	66991	66991
glossy silver / black	66990	66990
matt aluminium / black	67558	67558
european gold / black	66989	66989



Printed colours for indication only. Cannot serve as a substitute for real material sample.





CO₂



UV Print



Indoor



Surface

surface /
core colour

silver / black	19872
black / white	19871

2-ply
0.09 mm (.004")



BENEFITS

- Laser engraving and cutting
- Available in black/white or silver/black
- 10 meter (32') roll
- Very thin
- Delivered with adhesive backing
- Design special shapes with your CO₂ laser

APPLICATIONS

Labels, barcodes, trophy plates

SPECIFICATIONS

Finish	Matt
Composition	Acrylic
Engraving depth	0.025 mm (.001")
Full sheet	120 mm x 10m (4.75" x 32')
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-60°C (-76°F)
Max. temp.	200°C (392°F)

TECH TIPS

Delivered in roll, with adhesive backing.

Very good material for small labels on curved surface.

For a larger choice of colours, see Flexilase™ p.24.

Printed colours for indication only. Cannot serve as a substitute for real material sample.

GRAVOGRAPH



BENEFITS

- Phenolic material
- Glossy finish
- Resistant to chemicals and solvents
- Non-flammable
- Conforms to military specifications ASTM D 709 ES-1, ES-2, ES-3
- Electrically non-conductive

APPLICATIONS

Industrial identification

SPECIFICATIONS

Finish	Glossy
Composition	Rigid thermoset material
Engraving depth	0.3 mm (.012")
Full sheet	1 220 mm x 600 mm (48" x 24")
Half sheet	605 mm x 600 mm (24" x 24")
Quarter sheet	600 mm x 300 mm (24" x 12")
Other size	-

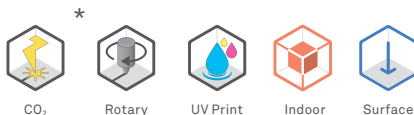
CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	180°C (356°F)

TECH TIPS

Thanks to its specific characteristics, this material is the ideal choice for all your industrial identification needs.

Gravostrat™ can be laser engraved but not laser cut.



Double-sided			
surface / core colour		1.0 mm (.040")	1.4 mm (.055")
		22045	18516
white / red			
white / blue			
white / black		30385	22042
yellow / black		22044	22051
red / white		22043	22050
green / white		22046	22053
blue / white		18489	18509
grey / black		22047	
black / white		30395	22048

* Gravostrat™ can be laser engraved but not laser cut.
Gravostrat™ may be subject to slight variations in thickness.



Printed colours for indication only. Cannot serve as a substitute for real material sample.





CO₂



Indoor



Surface

natural rubbalase	19897	2.2 mm (.087")
odourless rubbalase	48542	

BENEFITS

- Natural rubber sold in sheets, exclusively for lasering with CO₂ laser engraving machines to create inking stamps
- Grey in colour, 2.2 mm (.087") in thickness

APPLICATIONS

Rubber stamps

SPECIFICATIONS

Finish	Grey
Composition	Rubber
Engraving depth	-
Full sheet	297 x 210 mm (A4) (11.7" x 8.3")
Half sheet	-
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	-
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (40°F)
Max. temp.	80°C (176°F)



TECH TIPS

The hardness of elastomers is measured on the scale "Shore A"; Rubbalase™ is measured at 60 "Shore A".

Printed colours for indication only. Cannot serve as a substitute for real material sample.

GRAVOGRAPH



BENEFITS

- Satin finish (except Matt Decor)
- 2-ply or double-sided
- Many colours and thicknesses
- Scratch resistant



APPLICATIONS

Interior signage, identification plates, key tags

SPECIFICATIONS

Finish	Satin
Composition	XT/ABS
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The acrylic surface of this product and its smooth satin finish makes this very popular product scratch resistant.

For custom colours, see Custom materials on demand p.10.

Double-sided	surface / core colour	2-ply			
		0.8 mm (1/32")	1.6 mm (1/16")	2.4 mm (3/32")	3.2 mm (1/8")
white / red			17385	17484	29699
white / green			17313		
white / pine green			29561		
white / blue		17284	17396	17489	
white / black		17263	17331	22030	29578
ivory / chocolate brown			17310		29700
almond / silver grey			17425		
almond / black			32293		
yellow / blue			17373		
yellow / black		17273	17366	17478	29579
yellow / white			29564		17525
yellow / magenta			29565		
orange / white			17407		
orange / black			17404		
burnt orange / black		29560	29566		

Double-sided	surface / core colour	2-ply			
		0.8 mm (1/32")	1.6 mm (1/16")	2.4 mm (3/32")	3.2 mm (1/8")
red / white		17267	17506	17472	29580
red / black			17454		
red / yellow			17445		
burgundy / white			17463		
burgundy / silver grey			17431		
purple / white			17436		
teal / white			29569		
apple green / white		17292	17442	17503	29602
green / white			17393		
pine green / white			17410	17495	
metallic blue / white			17363		
azure blue / yellow			17439		
azure blue / white		17270	17353	17475	29603
air force blue / white		17428	17500		29705
navy blue / silver grey		29582			



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





BENEFITS

- Satin finish (except Matt Decor)
- 2-ply or double-sided
- Many colours and thicknesses
- Scratch resistant

APPLICATIONS

Interior signage, identification plates, key tags

SPECIFICATIONS

Finish	Matt, Satin
Composition	XT/ABS
Engraving depth	0.3 mm (.012")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

The acrylic surface of this product and its smooth satin finish makes this very popular product scratch resistant.

For custom colours, see Custom materials on demand p.10.

Double-sided

surface / core colour	2-ply	
	0.8 mm (1/32")	3.2 mm (1/8")
navy blue / white	29581	29706
rust / white	17448	
cocoa / white	17419	
cocoa / chocolate brown	17413	
brown / white	17388	
chocolate brown / white	31641	29704
light grey / black	29583	
silver grey / white	29584	
silver grey / black	17276 17379 17481	
metallic grey / white	17376	
black / white	17250 17319 17467	17521
black / red	29601	
black / yellow	17399	
black / silver grey	29572	

Design Matt decor

	2-ply	
	1.6 mm (1/16")	
new york white / slate	29614	
candlewick / slate	29616	
candlewick / green	32743	
slate / new york white	29617	

Design Translucent

	2-ply	
	1.6 mm (1/16")	
red / translucent white	17301	
black / translucent white	17295	

The dimensions indicated represent our minimal commitment.
Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- This unique material offers 3 layers of colour for surface engraving
- The colour revealed varies according to the depth of engraving
- Only one tool required to achieve two different colours
- Ideal for safety signs

APPLICATIONS

Signage, plates with logos, badges

SPECIFICATIONS

Finish	Matt
Composition	ABS
Engraving depth	0.1 mm (.004") - 0.3 mm (.012")
Full sheet	1220 mm x 600 mm (48" x 24")
Half sheet	610 mm x 600 mm (24" x 24")
Quarter sheet	600 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Unique on the engraving market, it is the only 3-colour material that does not require colouring.

Other colour combinations available on demand. Contact us for more information.

For custom colours, see Custom materials on demand p.10.



Rotary



UV Print



Indoor

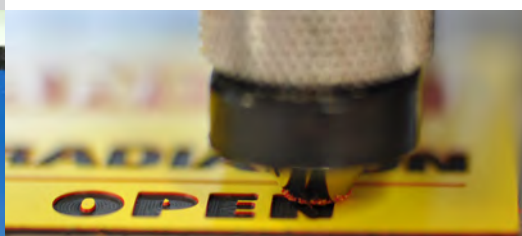
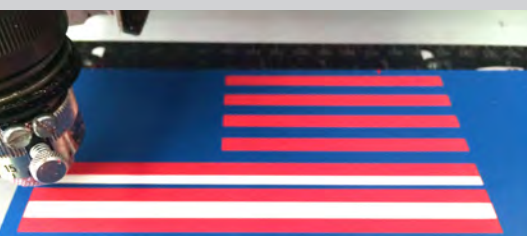


Surface

		3-ply	
		1.6 mm (1/16")	
surface / core colour / core colour			
white / red / black		23957	
yellow / white / black		23949	
yellow / red / black		23954	
red / white / black		23955	
apple green / white / black		23953	
blue / white / black		23956	
blue / red / white		23952	
brushed aluminium / black / white		23951	
radiant gold / black / white		23950	
black / red / white		23948	

GRAVOGRAPH

Printed colours for indication only. Cannot serve as a substitute for real material sample.





surface / core colour	2-ply	0.2 mm (.008")
white / black	18448	18448
yellow / black	18456	18456
orange / black	18462	18462
red / white	18450	18450
purple / white	18469	18469
green / white	18460	18460
blue / white	18452	18452
brown / white	18458	18458
silver / black	21811	18458
gold / black	18464	18464
copper / black	18467	18467
grey / white	18454	18454
black / white	18446	18446

BENEFITS

- Very flexible
- Interior and exterior
- Excellent resistance to acids and solvents
- Comes with adhesive backing
- Colours for the identification of pipes in the industrial sector

APPLICATIONS

Industrial signage, permanent labels

SPECIFICATIONS

Finish	Matt
Composition	PVC
Engraving depth	0.02 mm (.001")
Full sheet	660 mm x 480 mm (25" x 18")
Half sheet	480 mm x 330 mm (18" x 12,5")
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Unique on the market, colours for identification of pipes in the industrial sector.

For CO₂ laser engraving, we suggest the use of Flexilase™ p.24.

Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- 3 choices of surface: matt, glossy or textured
- For indoor and outdoor use
- UV stable



Surface engraving
Matt

APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Matt
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Large choice of colours and finishes, plus many other combinations available on request.

The textured finish makes the product surface stronger and scratch resistant. Ideal for industrial applications.

For custom colours, see Custom materials on demand p.10.

Double-sided		2-ply		
		1.6 mm (1/16")	3.2 mm (1/8")	3.2 mm (1/8")
white / red		29627		
white / blue		29628		
white / black		17875 29904		29912
yellow / black		17881		
orange / black		29633		
orange / white		47230		
red / white		17877 29905		
burgundy / white		17883		
teal / white		29637		
apple green / white		17885 29906		
green / eggshell		29639		
metallic blue / white		29641		
azure blue / white		17879 29907		
chocolate brown / white		29636		
silver grey / black		17887 29908		

Double-sided		2-ply		
		1.6 mm (1/16")	3.2 mm (1/8")	3.2 mm (1/8")
gold / black		29642		
black / white		17873 29911		29913
black / gold		29643		



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Surface engraving
Glossy

surface / core colour	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
white / red	17907	18063
white / blue	17904	
white / black	17892	18051
yellow / black	17901	18060
red / white	17895	18054
burgundy / white	17913	18069
apple green / white	17910	18066
pine green / white	17918	18072
azure blue / white	17898	18057
royal blue / white	29647	
brown / white	29644	
chocolate brown / white	29645	29650
silver grey / black	17930	18078
gold / black	17927	18075
copper / black	17924	
black / white	17889	18048
black / gold	17933	18080

Textured

	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
white / black	18304	
white / red	18325	
white / pine green	18337	
almond / black	34404	
yellow / black	18334	
red / white	18307	
apple green / white	29654	
pine green / white	18343	
azure blue / white	18310	
american blue / white	18313	
brown / white	18328	
silver grey / black	18322	
black / white	18301	29917

BENEFITS

- Surface engraving
- 3 choices of surface: matt, glossy or textured
- For indoor and outdoor use
- UV stable

APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Glossy, Textured
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Large choice of colours and finishes, plus many other combinations available on request.

The textured finish makes the product surface stronger and scratch resistant. Ideal for industrial applications.

For custom colours, see Custom materials on demand p.10.

The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- For indoor and outdoor use
- UV stable
- Subsurface engraving

APPLICATIONS

Indoor and outdoor signage,
professional plates, directories

SPECIFICATIONS

Finish	Matt
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

UV stability for outdoor signage.

You can use Gravograph recommended paint to colour any Gravoglas™ 2-Plex™ subsurface engraving. See p.55.

For custom colours, see Custom materials on demand p.10.



Subsurface engraving
Matt

surface / backing colour	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
clear / clear	17941	18082
clear / white	17947	18086
clear / eggshell	33982	
clear / almond	17958	33977
clear / cream	29658	
clear / yellow	17956	
clear / red	17950	18088
clear / bordeaux	29659	
clear / burgundy	17976	
clear / apple green	17973	
clear / green	29662	34381
clear / azure blue	17953	33962
clear / american blue	29663	
clear / royal blue	29665	
clear / metallic blue	29666	

surface / backing colour	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
clear / cocoa	29660	
clear / taupe	29661	
clear / chocolate brown	17970	34363
clear / silver grey	17961	34406
clear / slate	29667	
clear / silver	29669	
clear / gold	29670	
clear / black	17944	18084



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Subsurface engraving
Glossy

surface / backing colour	2-ply	
	1.6 mm (1/16")	3.2 mm (1/8")
clear / clear	29655	29657
clear / white	17988	18021
clear / almond	18015	18101
clear / yellow	18003	18036
clear / red	17997	18030
clear / air force blue	17938	18018
clear / azure blue	18000	18033
clear / silver grey	29656	
clear / silver	17985	18093
clear / gold	17982	18091
clear / black	17991	18024
	18104	

BENEFITS

- For indoor and outdoor use
- UV stable
- Subsurface engraving

APPLICATIONS

Indoor and outdoor signage, professional plates, directories

SPECIFICATIONS

Finish	Glossy
Composition	DR Acrylic
Engraving depth	0.3 mm (.012")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	-
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

UV stability for outdoor signage.
You can use Gravograph recommended paint to colour any Gravoglas™ 2-Plex™ subsurface engraving. See p.55.
For custom colours, see Custom materials on demand p.10.

The dimensions indicated represent our minimal commitment.
Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- Interior use
- Profile available with or without adhesive backing

APPLICATIONS

DDA & ADA compliant, tactile signage

SPECIFICATIONS

Finish	Matt
Composition	ABS
Engraving depth	-
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	■
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Matt finish and wide range of colours ideal for your Braille and tactile signs and pictograms. Americans with Disabilities Act (ADA) compliant. For better visibility, choose contrasted colours.



	1-ply		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
clear	32729		
bright white	37042	29879	31260
white	37033	29880	31236
almond	37070	29882	32294
yellow	24998	29883	
rust	32291	29884	32292
red	25001	29885	31699
burgundy	69711	29888	31728
tan	32726	29889	32727
taupe	37047	29890	31261
brown	31631	29891	
chocolate brown	37058	29892	31646
pine green	37060	29895	31836
metallic blue	37032	29896	31392
azure blue	37048	29897	31404

	1-ply		
	0.8 mm (1/32")	1.6 mm (1/16")	3.2 mm (1/8")
navy blue	69712	29898	31360
candlewick	37050	29899	31410
silver grey	69713	29900	32185
slate	37065	29901	32276
black	37037	29902	31256

The Gravotac™ process :



Adhere 0.8 mm (1/32") profile material to 1.6 mm (1/16") or 3.2 mm (1/8") substrate. Engrave using outline font. Peel excess profile material off substrate.



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Indoor

surface / core colour	2-ply	
	0.5 mm (.020")	1.6 mm (1/16")
radiant silver / black	51026 49986	51026 49986
radiant silver / blue	51059 51013	51059 51013
glossy silver / black	29548 51027 49980	29548 51027 49980
brushed silver / black	18961	19003
brushed silver / blue	18968	
brushed aluminium / black	51025 49981	77657
matt aluminium / black	51024 51002	
brushed bronze / white	29545	29555
brushed bronze / black	29544 51032 51004	29554
copper / black	29546	29556
radiant gold / black	51028 49983	80840
brushed gold / black	18960 51031 49985	19002
european gold / black	29542 51030 49982	29552
glossy gold / black	29543 51029 49984	29553

Outdoor

surface / core colour	2-ply	
	0.5 mm (.020")	1.6 mm (1/16")*
glossy aluminium / black		81694
matt aluminium / black		78538
brushed silver / black		78539
brushed copper / black		78541
brushed gold / black		78540

* Other thickness available on demand

BENEFITS

- Laser engraving and cutting
- 0.025 mm (.001") cap layer for detailed engraving
- 0.5 mm (.020") thickness suitable for bevelling
- UV resistant
- Metallic, glossy, brushed, matt finish
- Excellent for interior and exterior signage

APPLICATIONS

Badges, trophy plates, award plates, identification plates, interior and exterior signage

SPECIFICATIONS

Finish	Metallic, Glossy, Brushed, Matt
Composition	DR Acrylic
Engraving depth	0.1 mm (.004")
Full sheet	1 220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

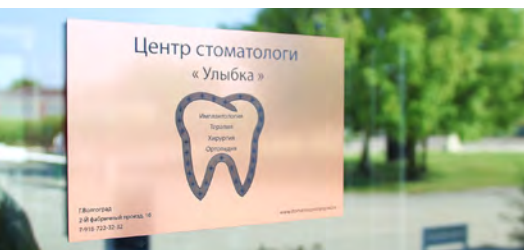
Interior	■
Exterior	■
Shear	■
Saw	-
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

We offer fabrication services to prepare your badges, labels, plates, etc. All you have to do is engrave them. Contact us for more information.

For custom colours, see Custom materials on demand p.10.

The dimensions indicated represent our minimal commitment.
Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- 2-ply silver, gold, aluminium, bronze
- Microthin surface layer
- Metallex™ is excellent for indoor applications
- Metallex™ Gloss has an extra durable, scratch resistant, glossy cap
- Metallex™ Hard Coat for a smooth, supergloss finish

APPLICATIONS

Badges, identification plates, plates

SPECIFICATIONS

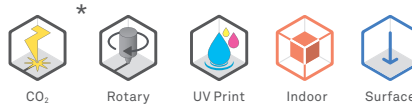
Finish	Glossy, Matt, Brushed
Composition	ABS
Engraving depth	0.1 mm (.004")
Full sheet	1220 mm x 610 mm (48" x 24")
Half sheet	610 mm x 610 mm (24" x 24")
Quarter sheet	610 mm x 305 mm (24" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	■
Heat bending	■
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	80°C (176°F)

TECH TIPS

Metallex™ Gloss: a glossy cap is applied, giving a slightly grainy surface for less fingermarks and higher scratch resistance.
Metallex™ Hard Coat: topcoat processing giving a smooth, super gloss finish.
For custom colours, see Custom materials on demand p.10.



Metallex™

surface / core colour	2-ply			
	0.5 mm (.020")	0.8 mm (1/32")	1.5 mm (1/16")	2.4 mm (3/32")
brushed silver / black		21825	21889	21957
matt aluminium / black	53224	21867	21941	21999
brushed aluminium / black	53221	21830	21898	21965
glossy silver / red			21902	
glossy silver / blue			21900	
glossy silver / black	71616	21823	21887	21955
new gold / black	53222	21846	21914	21978
radiant gold / black		21824	21888	21956
european gold / black		21836	21903	21969
glossy gold / black	53223	21822	21886	21954
brushed bronze / white	21826	21890		
brushed bronze / black		21904		

Metallex™
Gloss

		2-ply
		1.5 mm (1/16")
brushed aluminium / black		23974
glossy silver / black		23972
radiant gold / black		23973
european gold / black		23975
glossy gold / black		23971

Metallex™
Hard Coat

		2-ply
		1.5 mm (1/16")
radiant silver / black		21892
brushed aluminium / black		21883
glossy silver / black		21882
radiant gold / black		21891
european gold / black		21884
glossy gold / black		21881

* Metallex™ products have a laserable foil cap but engraving color results can vary according to the reference. Vector cutting is not recommended.



The dimensions indicated represent our minimal commitment. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Rotary



UV Print



Indoor



Surface

Double-sided

surface /
core colour

gold / black / silver	18472*	1.5 mm (1/16")	18482*	3.0 mm (1/8")
silver / black / silver	18471**			

* One side brushed gold, other side matt silver
** Both sides matt silver

BENEFITS

- One product with two finishes
- Aluminium caps with a black phenolic core
- No paint filling required

APPLICATIONS

Professional interior signage, award plates, identification plates, signage

SPECIFICATIONS

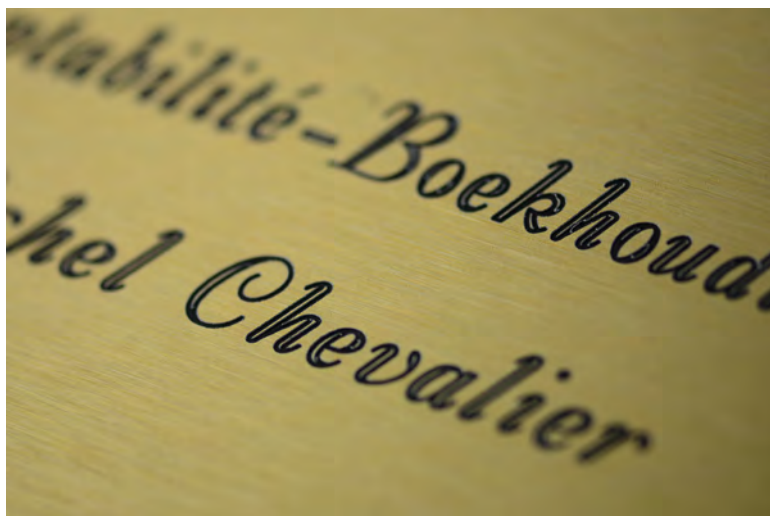
Finish	Brushed, Matt
Composition	Aluminium / Phenolic
Engraving depth	0.3 mm (.012")
Full sheet	1 220 mm x 605 mm (48" x 23")
Half sheet	610 mm x 605 mm (24" x 23")
Quarter sheet	605 mm x 305 mm (23" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	-
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	180°C (356°F)

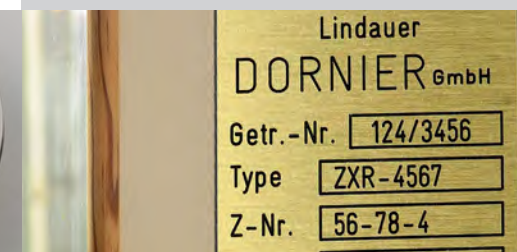
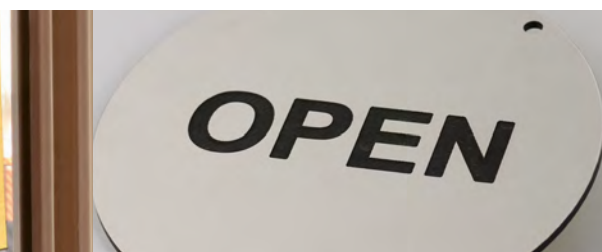
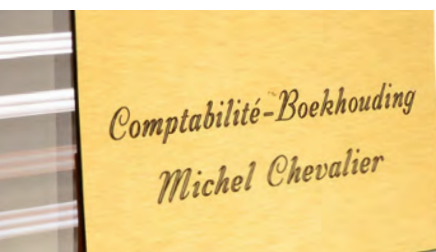
TECH TIPS

This material offers the advantages of aluminium without the inconvenients. Its aluminium surface on both sides and phenolic core save time and money by avoiding paint filling.



Printed colours for indication only. Cannot serve as a substitute for real material sample.

GRAVOGRAPH



BENEFITS

- For rotary and laser engraving
- High detail laser engraving



APPLICATIONS

Control panels, legend plates, award plates, interior and exterior signage

SPECIFICATIONS

Finish	Matt or Glossy
Composition	Aluminium
Engraving depth	0.1 mm (.004")
Full sheet	1000 mm x 500 mm (39" x 19")
Half sheet	-
Quarter sheet	-
Other size	2000 mm x 1000 mm (78" x 39")

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	200°C (392°F)

TECH TIPS

Strong anodisation for a durable protection of the material.

Available sizes are 1000 mm x 500 mm (39" x 19") or 2000 mm x 1000 mm (78" x 39") on request. You can use Gravograph recommended paint to colour any GravoXal™ engraving. See p.55.

Aloxide may be used to colour glossy plates (small characters) after rotary engraving.

Matt

		0.5 mm (.02")	
champagne		18581	18581
red		18577	18591
green		18583	18597
blue		18579	18593
silver		18385	18387
gold		18571	18616
bronze		18585	18601
black		18569	18614

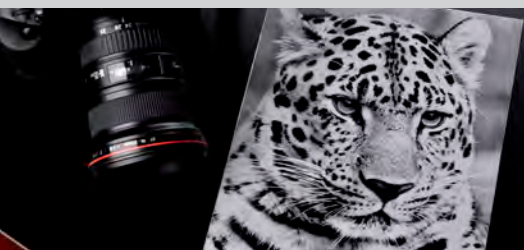
Glossy

		1.0 mm (.40")	
champagne		18640	18662
red		18636	18658
green		18642	18664
blue		18638	18660
silver		18618	18646
gold		18630	18654
bronze		18644	18666
black		18624	18650

Silver colours are anodised on both sides during the continuous anodisation process. Protective film on one side.
Due to the process, there can be stains in the corners of aluminium sheets.
* Laser engraving on coloured materials. The engraving contrast may vary according to the colour.



Anodising process may produce slightly different colours from one batch to another. Printed colours for indication only. Cannot serve as a substitute for real material sample.





Matt

Glossy

Double-sided		1.0 mm (.04")	1.5 mm (1/16")	2.0 mm (1/12")
champagne		18360	18372	18383
red		18354	18366	18377
green		30538	30540	30542
blue		18356	18368	18379
silver		18350	18362	18374
gold		18358	18370	18381
bronze		30532	30534	30536
dark bronze		64567	64569	64571
black		18352	18364	22056

Double-sided		1.0 mm (.04")	1.5 mm (1/16")	2.0 mm (1/12")
champagne		18555	18561	18567
red		18552	18558	18564
green		30521	30522	30523
blue		18553	18559	18565
silver		18550	18556	18562
gold		18554	18560	18566
bronze		30524	30526	30530
black		18551	18557	18563

All colours are anodised on both sides during the continuous anodisation process.
Protective film on both sides.
Due to the process, there can be stains in the corners of aluminium sheets.
* Laser engraving on coloured materials. The engraving contrast may vary according to the colour.

BENEFITS

- Double-sided anodised aluminium
- For rotary and laser engraving
- High detail laser engraving

APPLICATIONS

Control panels, legend plates, award plates, interior and exterior signage

SPECIFICATIONS

Finish	Matt or Glossy
Composition	Aluminium
Engraving depth	0.1 mm (.004")
Full sheet	1 000 mm x 500 mm (39" x 19")
Half sheet	-
Quarter sheet	-
Other size	2 000 mm x 1 000 mm (78" x 39")

CAPABILITIES

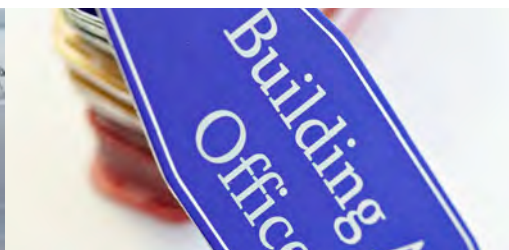
Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	200°C (392°F)

TECH TIPS

Perfectly anodised and protected on both sides, GravoXal™ Double-sided can be used for flag signage.

Aloxide may be used to colour glossy plates (small characters) after rotary engraving.

Anodising process may produce slightly different colours from one batch to another.
Printed colours for indication only. Cannot serve as a substitute for real material sample.



BENEFITS

- High quality engraver's brass
- Paint fill with Gravograph recommended paint



APPLICATIONS

High quality signage, company name plates

SPECIFICATIONS

Finish	Solid or shiny polished
Composition	Brass
Engraving depth	0.3 mm (.012")
Full sheet	1340 mm x 670 mm (52" x 26")
Half sheet	670 mm x 670 mm (26" x 26")
Quarter sheet	670 mm x 335 mm (26" x 13")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

Brass oxidation is a natural phenomenon. Clean your Gravobrass™ Exterior regularly to preserve its brightness or add a protective varnish after engraving. Solid brass is unpolished and may feature surface defects.

You can use Gravograph recommended paint to colour any Gravobrass™ Exterior engraving. See p.63. Use of chemicals on this material is not recommended.

Shiny polished

shiny polished brass	22032	1.0 mm (.04")
	22034	1.5 mm (1/16")
	22036	2.0 mm (1/12")
	22038	3.0 mm (1/8")

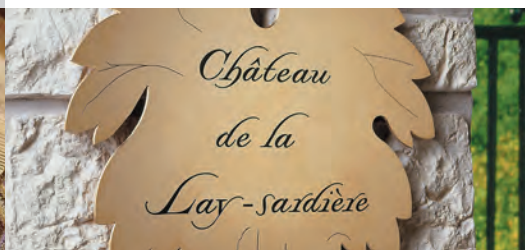
Solid

solid brass	22031	1.0 mm (.04")
	22033	1.5 mm (1/16")
	22035	2.0 mm (1/12")
	22037	3.0 mm (1/8")

Solid brass is unpolished and may feature surface defects.



Printed colours for indication only. Cannot serve as a substitute for real material sample.





Rotary



UV Print



Indoor



Surface

Glossy

surface / core colour		0.5 mm (.020")	1.2 mm (.050")
gold / gold		18407	18435

Satin

		0.6 mm (.025")	1.2 mm (.050")	1.6 mm (1/16")
gold / gold		18423	18438	18441
silver / gold		18429		

BENEFITS

- Diamond, rotary and burnish engraving
- Pre-polished and lacquered

APPLICATIONS

Interior signage, award plates, ornamental plates

SPECIFICATIONS

Finish	Glossy or Satin
Composition	Brass
Engraving depth	0.1 mm (.004") / 0.3 mm (.012")
Full sheet	1220 mm x 305 mm (48" x 12")
Half sheet	610 mm x 305 mm (24" x 12")
Quarter sheet	305 mm x 305 mm (12" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	200°C (392°F)

TECH TIPS

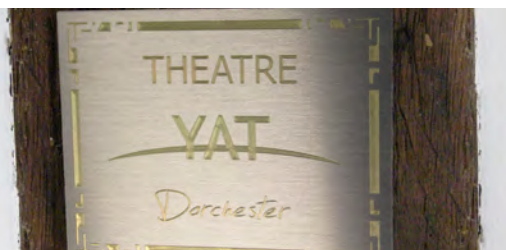
High quality brass varnish finish, ideal for indoor plates. You can also add a protective varnish after engraving for outdoor use.

Apply clear lacquer after engraving to avoid tarnishing.

Use Gravoxide or paint fill for contrasting letter colour.

Printed colours for indication only. Cannot serve as a substitute for real material sample.

GRAVOGRAPH





BENEFITS

- Lightweight
- Easy to shear
- Sublimatable

APPLICATIONS

Trophies, award plates, name plates, signage

SPECIFICATIONS

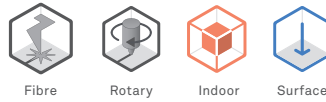
Finish	Satin or glossy
Composition	Aluminium
Engraving depth	0.2 mm (.008")
Full sheet	1220 mm x 305 mm (48" x 12")
Half sheet	610 mm x 305 mm (24" x 12")
Quarter sheet	305 mm x 305 mm (12" x 12")
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	100°C (212°F)

TECH TIPS

Thin aluminium for small plates and labels, to be engraved with your laser machine. Good contrast result after engraving.

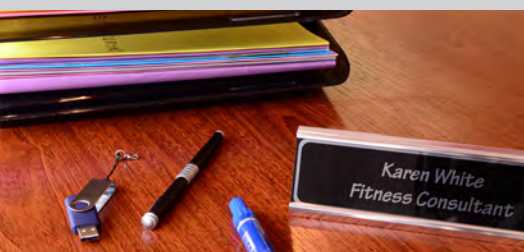


surface / core colour		2-ply
glossy white / silver		34426* 0.6 mm (.025")
glossy red / silver		34528
glossy blue / silver		34497
satin gold / silver		34595
glossy gold / silver		34596
satin silver / silver		34625
glossy silver / silver		34626
glossy black / silver		34455

* Glossy white full sheet 610 mm x 305 mm (24"x 12").



Printed colours for indication only. Cannot serve as a substitute for real material sample.



COUTURE WORKSHOP
Kathryn C.





Fibre



Rotary



Indoor



Surface

surface / core colour	2-ply	0.5 mm (.020")
glossy white / gold		34645
glossy red / gold		34692
glossy burgundy / gold		34685
glossy green / gold		34710
glossy blue / gold		34679
glossy royal blue / gold		34694
satin gold / gold		34714
glossy gold / gold		34715
glossy black / gold		34677
matt black / gold		61083

BENEFITS

- Lightweight
- Easy to shear

APPLICATIONS

Trophies, award plates, name plates

SPECIFICATIONS

Finish	Satin, glossy or matt
Composition	Brass
Engraving depth	0.2 mm (.008")
Full sheet	610 mm x 305 mm (24" x 12")
Half sheet	305 mm x 305 mm (12" x 12")
Quarter sheet	-
Other size	-

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	■
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

The ideal brass material for all your trophy and award plates. Large choice of colours and great contrast results after engraving process.

We recommend engraving with a diamond or lasering.

Printed colours for indication only. Cannot serve as a substitute for real material sample.

GRAVOGRAPH





BENEFITS

- This special line of gold and silver anodised aluminium returns black characters when lasered with any standard CO₂ laser engraver.
- No oxidation or paint fill needed.
- Only 6-10 watts of power required.
- Satin finish

APPLICATIONS

ID plates, bar codes, labels, control panels

SPECIFICATIONS

Finish	Satin
Composition	Aluminium
Engraving depth	0.025 mm (.001")
Full sheet	610 x 508 mm (24" x 20")
Half sheet	-
Quarter sheet	-
Other size	305 x 254 mm (12" x 10") for 27414 508 x 305 mm (20" x 12") for 45878 610 x 305 mm (24" x 12") for 45879 & 45878

CAPABILITIES

Interior	■
Exterior	-
Shear	■
Saw	-
Silk screen	■
Hot stamp	-
Heat bending	-
Scratch resistant	-
Flexible	■
Break resistant	■
UV resistant	-
Min. temp.	-40°C (-40°F)
Max. temp.	230°C (450°F)

TECH TIPS

Save time with this aluminium: no need to paint fill to get a black mark.
Power sensitive material. If image is grey, reduce power. If image is tan, increase power.
Engraving quality is improved using 50% speed.
Laser power: 6 - 10 watts



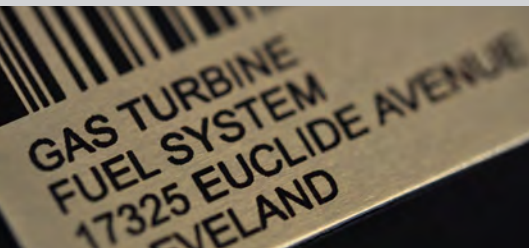
surface /
core colour

		0.127 mm (.005")*	0.5 mm (.020") *
satin silver / black		27414	27417
satin gold / black		27415	27416
satin brass / black		45879	45878

* Delivered with adhesive backing.

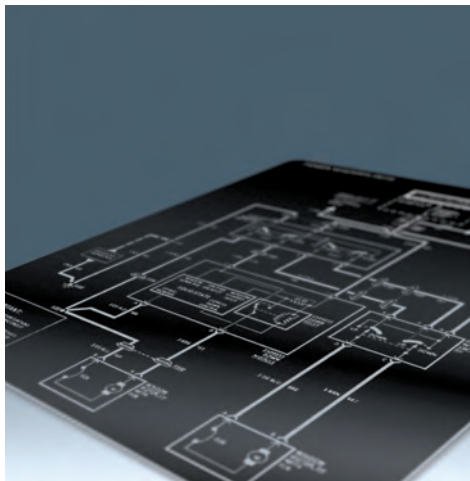


Printed colours for indication only. Cannot serve as a substitute for real material sample.





* Delivered with adhesive backing.



BENEFITS

- CO₂ laser markable aluminium for durable marking for harsh operating environments.
- Resistant to sunlight (UV-radiation), abrasion, high-temperatures, salt-spray and chemical exposure.
- Meets several government, industrial and military specifications

APPLICATIONS

Durable signage, placards, barcodes, asset tags

SPECIFICATIONS

Finish	Matt
Composition	Aluminium
Engraving depth	0.025 mm (.001")
Full sheet	610 mm x 508 mm (24" x 20")
Half sheet	508 mm x 305 mm (20" x 12")
Quarter sheet	305 mm x 254 mm (12" x 10")
Other size	-

CAPABILITIES

Interior	■
Exterior	■
Shear	■
Saw	■
Silk screen	-
Hot stamp	-
Heat bending	-
Scratch resistant	■
Flexible	-
Break resistant	-
UV resistant	■
Min. temp.	-40°C (-40°F)
Max. temp.	370°C (700°F)

TECH TIPS

Aluminium for CO₂ laser marking needs in high production environments.

Conforms to: MIL-STD 130N, A-A-50271, and MIL-STD-15024F, Type L, MIL-STD-810G for withstanding 96 hours of exposure to corrosive chemicals. ASTM B117 30 days exposure to salt fog.

Printed colours for indication only. Cannot serve as a substitute for real material sample.



Highly polished anodised aluminium in gold and silver

Counter and desk bases

Ideal for use in companies, retail shops and administrations for small size instruction signs intended to the public.



Description	Inserts	Insert length	Gold	Silver
Plate Stand	1.6 mm	200 mm	19474	19480
Plate Stand	1.6 mm	254 mm	34825	34880

Desk holders

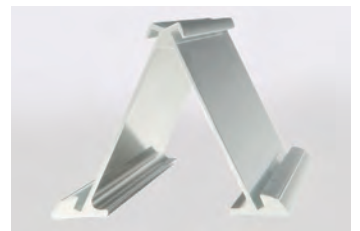
To identify a person, function or department.



Description	Inserts	Insert size	Gold	Silver
Slimline Plate Holder	1.6 mm	178 x 25 mm	30073	30072
Standard Plate Holder	1.6 mm	203 x 51 mm	30077	30076
Standard Plate Holder	1.6 mm	254 x 51 mm	34820	19479

Double-sided holders

To identify a person, function or department on one side and brief instructions on the other. Ideal for opening times or Open/Closed signs.



Description	Inserts	Insert size	Gold	Silver
Double-sided Plate Holder	1.6 mm	152 x 32 mm	30075	30074

Directories and sign holders

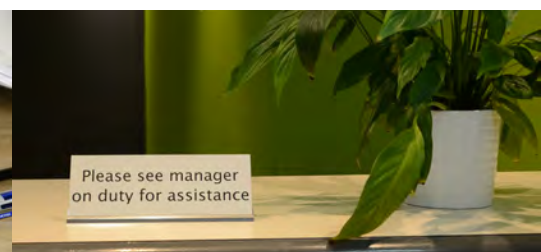
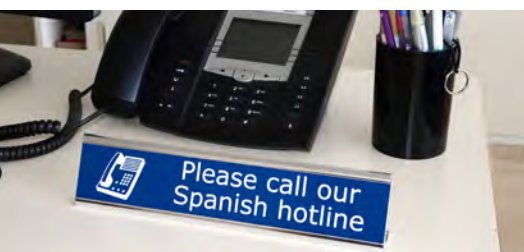
Ideal at the entrance of a department, stairwell or building level. Use double-sided tape or drill holes to mount.



Description	Directory Size	Inserts	Header size	Insert size	Silver
Deluxe Directories, Header Plus Three Inserts	178 x 89 mm	1.6 mm	178 x 32 mm	178 x 19 mm	34911

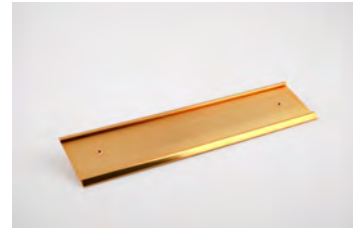
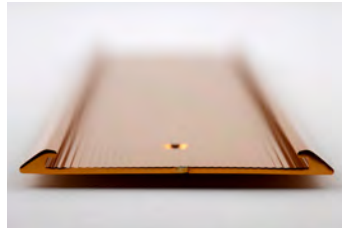
Note: directory sizes are inside dimensions, delivered without header / inserts.

www.gravograph.com



Wall and corridor brackets

Use double-sided tape or drill holes to mount.



Description	Inserts	Insert size	Gold	Silver
Rib Back Plate Holder	1.6 mm	203 x 51 mm	19476	19485
Rib Back Plate Holder	1.6 mm	254 x 51 mm	30069	30068

To identify a department or an office with a name and function.



Description	Inserts	Insert size	Gold	Silver
Wall Plate Holder Plain back	3.2 mm	254 x 51 mm	34839	34893
Wall Plate Holder Plain back	1.6 mm	254 x 51 mm	65930	65929

Use different colour inserts to suit application and environment. Make your choice from our Gravoply™ 1 or Gravoply™ 2 ranges.



Description	Inserts	Insert size	Gold	Silver
Utility Wall Plate Holder	1.6 mm	102 x 25 mm	19475	19482
Utility Wall Plate Holder	1.6 mm	152 x 25 mm	30067	30066
Utility Wall Plate Holder	1.6 mm	203 x 25 mm	34830	19483
Utility Wall Plate Holder	1.6 mm	203 x 38 mm	34833	34888
Utility Wall Plate Holder	1.6 mm	229 x 38 mm	34834	34889
Utility Wall Plate Holder	1.6 mm	660 x 38 mm	34836	34890

To mount signs perpendicular to the wall.



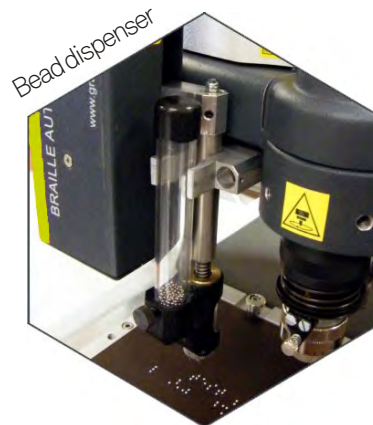
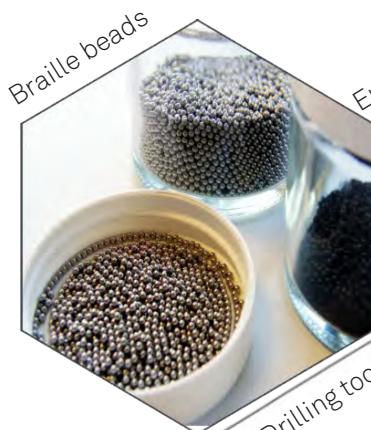
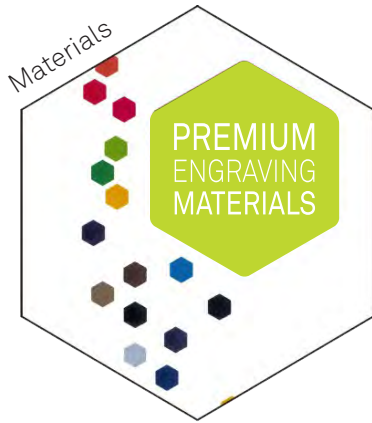
Description	Inserts	Insert height	Gold	Silver
Wall Bracket*	3.2 mm	51 mm min.	30070	19486
Wall Bracket*	3.2 mm	102 mm min.	30071	19487

*Cap nuts and screws included.





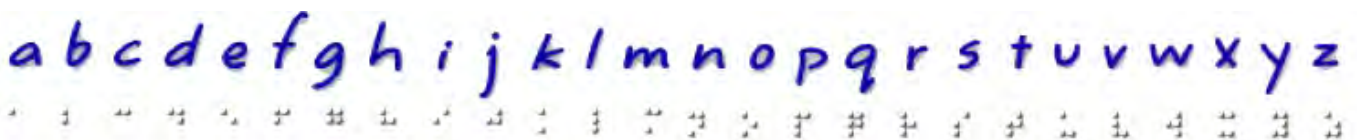
The Braille GRAVOGRAPH Total Solution



Braille is a system of tactile writing and reading for the use of blind and partially sighted people.

There is no SINGLE UNIVERSAL Braille system.

Different standards are used across the world, where sizes, character spacing and line spacing are specific to each individual language.





Software

The GravoStyle™ Braille option allows the transcription of text into Braille:

- 127 languages available from Discovery level upwards
- Totally automated procedure involving drilling followed by the insertion of beads (optional):
 - Customised cleaning and bead insertion speed
 - Specific parameters for plastics (ABS and acrylic), aluminium and brass, Gravotac™ and laminates

Machines

Compatible engraving machines:

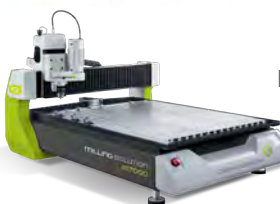
- IS400, IS6000, IS7000 & IS8000
- Required accessory: shaving extractor



IS400
Engraving zone
305 x 210 mm



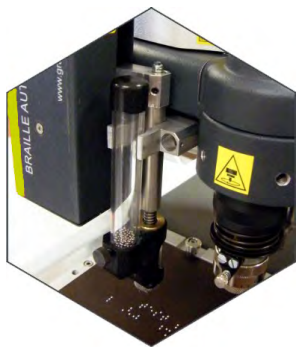
IS6000
Engraving zone
610 x 410 mm



IS7000
Engraving zone
610 x 815 mm



IS8000
Engraving zone
610 x 1220 mm



Bead dispenser

Automatic Braille kit

(drilling and bead insertion without manual intervention)

70711	Automatic Braille for IS400
70713	Automatic Braille for IS 6/7/8000 IQ+
70714	Automatic Braille for IS 6/7/8000 XP



Semi-automatic Braille kit

49959	Semi-automatic Braille kit for IS400 / IS6000-7000 -8000
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- IS400 / IS6000-7000-8000: adapter integrated into the semi-automatic Braille kit





Drilling tools

4 drilling tool references to choose from with the help of a tool selection assistance guide, according to the material and the beads used.



BRAILLE TOOL SELECTION GUIDE

ref: 48686 - Tool width 1.500 mm
ref: 48766 - Tool width 1.550 mm
ref: 48767 - Tool width 1.565 mm
ref: 48768 - Tool width 1.580 mm

	Adhesive-free materials			Materials with adhesive
	Steel beads	Brass beads	Acrylic beads	All beads
Metals	48767	48766	48767	48768
Acrylic	48767	48766	48767	48768
Gravotac™	48766	48766	48766	48768
Phénolic	48767	48766	48767	48768
ABS +2 Ply™	48686	48686	48686	48767



Braille beads

Reference	Description
49933	Stainless steel beads (x10000)*
49934	Brass beads (x10000)
49935	Clear acrylic beads (x10000)
49937	White acrylic beads (x10000)
49936	Black acrylic beads (x10000)

* Stainless steel beads recommended for semi-automatic and automatic Braille kits.



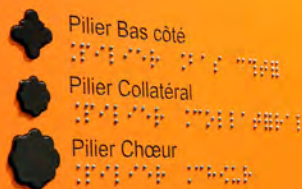
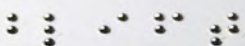
Micropel*

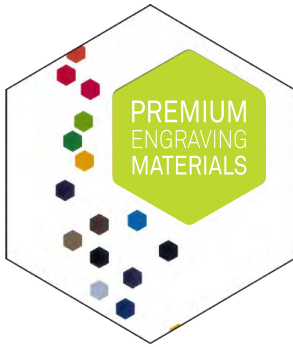
Reference	Description
76254	Antistatic solution for acrylic Braille beads

* Acrylic Braille beads only

www.gravograph.com

LIFT





Materials to be engraved

Creativity and know-how, together with our extensive range of materials, colours, thicknesses and qualities, will allow you to meet the requirements of any type of specification.

The various thicknesses available in the range will guarantee your compliance with local and regional legislation.

The subtle use of the various materials will enable you to produce perfect:

- Lettering
- Icons and symbols
- Tactile drawings and reliefs as well as all other materials related to accessibility requirements

For the production of your items, we recommend:

- Gravotac™: a single layered material, available in 3 thicknesses and a variety of colours for interior or exterior use.

Gravotac™: over 90 references for all your Braille and tactile architectural signage programmes.

Icon construction procedure:



Phase 1: outlining



Phase 2: peeling away



Phase 3: result



Training and support

Gravotech after-sale service is on hand to reply to your technical questions on the use of our solutions.

On the basis of our experience and the requirements of your business we offer you a Special Braille Training Course delivered in some of our subsidiaries, where you will acquire all the knowledge essential to your signage specification, manufacture and installation needs.



Laser metal marking



TherMark®



Water-based for fast clean up. A thin coat of material can be sprayed onto the metal, then left to dry for less than 2 minutes and engraved with your laser. The excess water-based material can be easily washed off to reveal the final **black mark**.

Designation	Capacity or size	Ref.
Thermark® LMM 14 Aerosol	170 g (6 oz)	67120 (*)
Thermark® LMM 14 Liquid ink	50 g (1.76 oz)	67119
Thermark® LMM 6018LF1 Tape	2.54 cm x 15 m (1" x 50')	71866
Thermark® LMM 6018LF2 Tape	5 cm x 15 m – (2" x 50')	67121

CerMark®



Solvent-based for easy handling before marking. This range contains a hardener that allows the products to be easily handled prior to marking with your laser (ideal for high production quota). The final result is the same permanent **black mark**.

Designation	Capacity or size	Ref.
Cermark® LMM 6000 Aerosol	340 g (12 oz)	68880 (*)
Cermark® LMM 6000 Paste	50 g (1.76 oz)	68878 (*)
	250 g (8.82 oz)	68879 (*)
	500 g (17.64 oz)	69974 (*)

Caution: these colouring products require special security measures. Use them in well ventilated rooms only and wear suitable protective clothing and gloves.

Safety kit



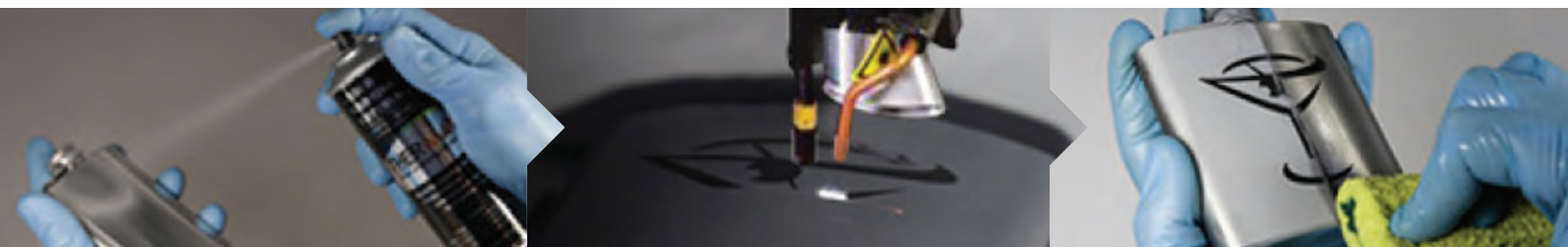
Containing protection glasses, 2 pairs of gloves (size 8 and size 9), 2 protection masks and a set of cleaning wipes.

Ref. 66599

* These items are shipped via ground transportation. For other means of transport, please consult us.

CerMark® Process: All products work with most uncoated metals. Excellent for metal marking with a CO₂ laser.

Read instructions carefully before use.



Paint & diluters



Gravolaque



Polyurethane, ultra shine paint, available in 9 colours, Gravolaque is designed to colour Gravoglas™ 1, Gravoglas™ 2-PLEX™ subsurface, anodised aluminium and brass.

Bottle delivered with 1 spout for :
 - Direct & precise application
 - Use of appropriate quantity

Bottle 250 ml (8.45oz)

Spare spout for Gravolaque	72204
----------------------------	-------

white	72195 (*)
yellow	72200 (*)
red	72196 (*)
green	72199 (*)
blue	72197 (*)
silver	72202 (*)
gold	72198 (*)
radiant gold	72201 (*)
black	72194 (*)

For more colours, please contact us.

Diluters

Application diluter 1LTR (33.8oz)	19469 (*)
Cleaning diluter for tools 1LTR (33.8oz)	19468 (*)

Nitrolaque



Versatile and fast drying, for colouring rotary engraving on metal, steel and plastic (except Gravoglas™ 1).
 Bottle 250 ml (8.45oz)

white	30373 (*)
red	30375 (*)
blue	30377 (*)
black	30374 (*)

For more colours, please contact us.

Application kit

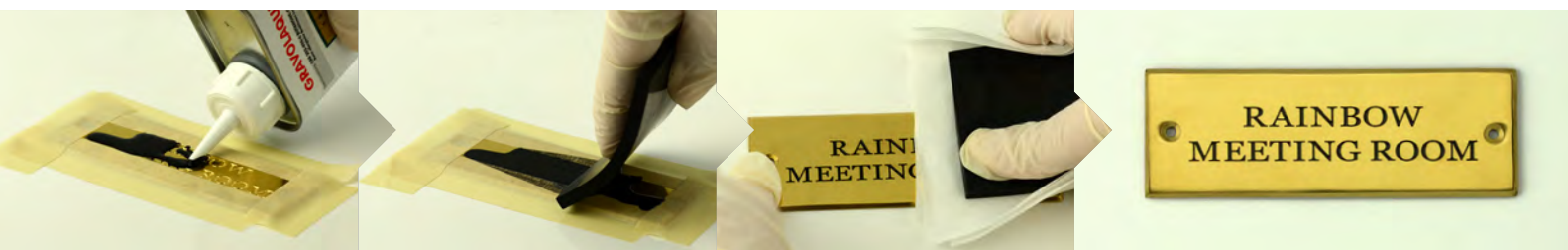


Application kit including:	72886
- Spatula 75 x 60 mm (2.95" x 2.36")	72885
- Rubafix roll	16248
- Tissues	24296

(items can be ordered separately)

* These items are shipped via ground transportation. For other means of transport, please consult us.

Gravolaque Process:



Oxydising agents



Gravoxide
Designed to blacken fine engraving on Gravometall.

Rotary engraving only.
Packaging: 90 ml (3 oz) bottle with application pad.
Ref. 21129 (*)

Aloxide
Designed to blacken fine engraving on glossy anodised aluminium.

Rotary engraving only.
Packaging: 90 ml (3 oz) bottle with application pad.
Ref. 21130 (*)

Cold wax sticks

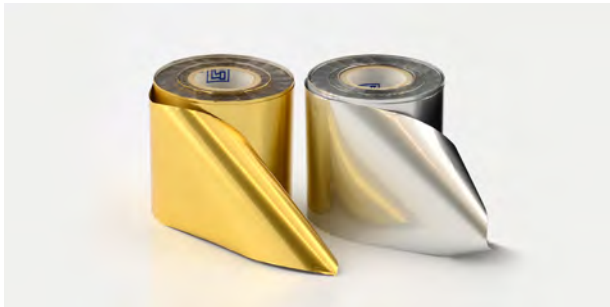


Suitable for colouring small characters (e.g. on pet medals). Range of 8 colours available.
Packaging: box of 5 sticks of the same colour.

white	20215	blue	20216
yellow	20217	silver	20214
red	20220	gold	20219
green	20221	black	20218

ArtFoil™

Rolls

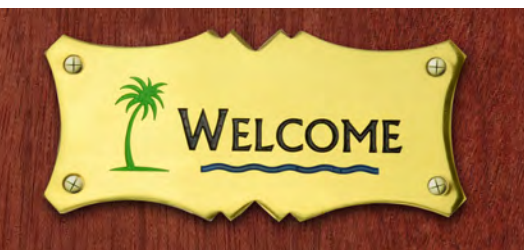


silver	72884
gold	72883

To use with the ArtFoil solution for hot-stamping. Available in 2 colours.
Roll width 50 mm (1.97"), length 61 m (66 yds).



* These items are shipped via ground transportation. For other means of transport, please consult us.



Lubrication



Soluble oil (6% / water litre)
For glass engraving only.
Automatic dispensing with M40 Gift lubricating device.
Volume: 1 LTR (33.8oz)
Ref. 12913



Engravolube solution
For non-ferrous metal engraving.
Manual dispensing at cutter tip.
Volume: 240 ml (8oz)
Ref. 26887



Vargol
Lubricant for VA. circular saws.
Synthetic oil for use with metals.
Application with Vargol dispenser.
Volume: 500 ml (16.9oz)
Ref. 21780



Lubricating bottle
Vargol dispenser for VA. saws.
Ref. 21781



Tarfil™ AT
Designed for metal engraving.
Manual dispensing at cutter tip.
Bottle: 215 g (7.58oz)
Ref. 19526



Vectolub™ lubricant oil
For non ferrous metal engraving.
Automatic dispensing with IS Spray Mist lubricating device.
Volume: 2 LTR (67.6oz)
Ref. 23494



Polycoupe™ lubricant spray
For non ferrous metal engraving.
Manual dispensing at cutter tip.
Spray: 250 ml (8.45oz)
Ref. 19527 (*)



Surfex® lubricant
For Aluminium engraving and cutting only.
Manual dispensing
Bottle: 1 LTR (33.8oz)
Ref. 30368

Cleaning



Gravoclean
Multi-use green cleaner. Ideal to remove marks on plates before or after engraving. Non-aggressive to acrylics and ABS.
Available in spray (ready-to-use solution) or non-fluffy wipes.
Spray 750 ml (25.36oz): Ref. 73180
Box of 50 wipes: Ref. 73181



Laser optics cleaner
This kit will enable you to maintain and remove fumes and back-splattered debris to minimize the absorption and excessive heat load, thus prolonging the optics lifetime.
Kit containing 125ML (4.22oz) solution, application pads and tissues: Ref. 26327 (*)



Universal cleaner
Ideal for cleaning metal and plastic surfaces (except ABS).
Apply with a tissue.
Volume: 1 LTR (33.8oz)
Ref. 23913 (*)



Industrial degreasing spray
Recommended for removing glue marks on metals only.
Manual spraying.
Volume: 500 ml (16.9oz)
Ref. 23912 (*)

* These items are shipped via ground transportation. For other means of transport, please consult us.



Glues



Spray mount

Aerosol for non-permanent fixing and repositioning of lightweight materials. Not recommended with expanded polystyrene. Volume: 500 ml (16.9 oz) Ref. 23914 (*)



Gravofix

Tin of glue especially designed for fixing plastic-backed pins to your badges. Volume: 250 ml (8.45 oz) Ref. 19360 (*)

Caution: It is of utmost importance to apply tape or glues on clean surfaces to get perfect adhesion.

Fixing tapes



For long-term mounting of engraved plates.

Type	Use	Sizes	Ref.
Double-sided	smooth surfaces, can be used to fix Braille beads	14 mm x 50 m (0.55" x 55 yds)	30369
Double-sided	smooth surfaces	19 mm x 50 m (0.75" x 55 yds)	30370
Double-sided	ideal for electrical switchboards	50 mm x 50 m (1.97" x 55 yds)	30372
Foam double-sided	ideal for rough, textured surfaces	19 mm x 66 m (0.75" x 72 yds)	47237
Transfer	ideal for curved surfaces, immediate adhesion	20 mm x 30 m (0.79" x 33 yds)	21121

Adhesive backing service

We can apply adhesive backing to badges, nameplates, strips and material sheets. Adhesive backing is applied before cutting material. Our adhesives are compatible for indoor and outdoor use

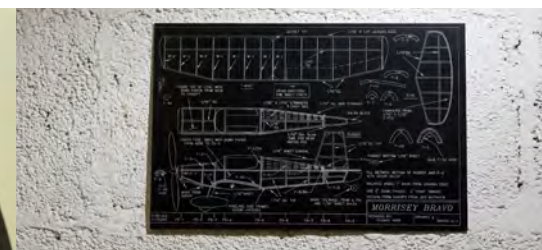
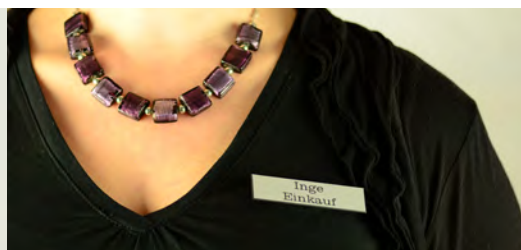


Adhesive type	Main applications	Substrate finish	Long-term T°C > 24h
467MP	Fixing of industrial labels, front panels, signs and personalisation plates on metals and plastics	Smooth	-40°C +150°C (-40°F +302°F)
468MP	Fixing of industrial labels, front panels, signs and personalisation plates on metals and plastics	Smooth, rough, textured	-40°C +150°C (-40°F +302°F)

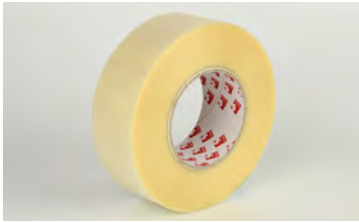
Caution before use:

Clean any grease marks from the substrate before sticking the plate. As glue reaches full adhesion capacity after 24h, it is advised not to move the plate before then

* These items are shipped via ground transportation. For other means of transport, please consult us.



Speciality tapes



Protective adhesive tape

To protect jewellery and brass door plates during engraving.

Size: 50 mm x 100 m
(1.97" x 109 yds)

Ref. 19528



Adhesive mounting tape

For temporary mounting of plates

Size: 25 mm x 25 m
(0.98" x 27 yds)

Ref. 20151 (*)

Gravogrip™

Flexible material placed on your engraving / marking table** to maintain the material to be engraved or cut into place.

** For IM4, M20, IS200 & M40 use a support table, see p.15.

Choose the size that will best suit your machine's working area.



78056	Full sheet 1220 x 610 mm (48" x 24")
67252	610 x 610 mm (24" x 24")
71052	610 x 305 mm (24" x 12")
45696	310 x 215 mm (12".20 x 8.46")
71053	305 x 200 mm (12" x 7.87")
71054	225 x 80 mm (8.85" x 3.15")
70996	120 x 100 mm (4.72" x 3.93")
72027	120 x 80 mm (4.72" x 3.15")
71056	cut-to-size on request

Gravogrip™ process:

* These items are shipped via ground transportation. For other means of transport, please consult us.



Ball chains

Stainless steel:

Beads of 2,42 mm (.095") diameter.



For attaching tags and labels to a wide range of objects (e.g. suitcases, pipes, key rings etc.)

Coloured stainless steel bead of 2,42 mm (.095"), 114 mm (4.5").

	Pack of 10	Pack of 50
silver	69880	69881
gold	69883	69884
blue	69446	69639
red	69447	69640
green	69448	69641
purple	69449	69642
orange	69450	69643
pink	69451	69644
black	69452	69645
white	69453	69646

Nickel-plated brass:

Beads of 2.25 mm (.088") diameter.

100 x 150 mm (5.91") with fastener	19534
10 x 1.5 m (59") without fastener	19535
box of 100 fasteners	19536



Ties

Ideal to fix all your medals and tags.

"S"-Hook (pack of 25).



Zinc-plated steel, length 18 mm (0.7")

Ref. 23919



Golden brass, length 21 mm (0.82")

Ref. 30152



Zinc-plated brass, length 26 mm (1.02")

Ref. 30151

Ring (pack of 100)



Nickel-plated steel
ø 13 mm (0.51")

Ref. 19532



Nickel-plated steel
ø 20 mm (0.78")

Ref. 19530



Golden brass
ø 13 mm (0.51")

Ref. 19533



Golden brass
ø 20 mm (0.78")

Ref. 19531

Stainless steel supports

A simple solution for labelling pipes which are too hot using Gravofoil (i.e. over 70° C / 158° F)

Fix your label onto a stainless steel support, ensuring that the label is not in direct contact with the pipe.

Use a collar to attach the support to the pipe.

Slip through the cross-shaped imprints before tying to the pipe.

Rounded corners. Hole diameter 3.2 mm (0.125")



Stainless steel supports	Part No.
80 x 40 mm (3.15 x 1.6")	19547
120 x 60 mm (4.72 x 2.36")	19548
200 x 100 mm (7.87 x 3.94")	19549

Pack of 10



Plastic collars	Part No.
50 fastening collars	19546
Steel collars	Part No.
25 m (27 yds) & 50 heads	19553



Stainless steel collars	Part No.
3 m (3.28 yds) & 8 heads	19550
25 m (27 yds) & 50 heads	19551



Wooden support



Wooden support to enhance engraved plates
 Dimensions: 340 x 240 x 20 mm (13.4 x 9.45 x 0.79")
 Composition: tropical hardwood
 Indoor & outdoor use
 Ref. 19470



Screw and screw cover



For a perfect finish to your mounted plates.

	Gold	Silver
100 screws 4 x 20 mm (0.16 x 0.79"), 12 mm (0.47") cover head	25731	25732
100 screws 4 x 30 mm (0.16 x 1.18"), 15 mm (0.59") cover head	25733	25734
100 screws 4 x 30 mm (0.16 x 1.18"), 18 mm (0.71") cover head	25735	25736

Spacer fasteners

The ideal fasteners to add a finishing touch to professional plates, hotel signage etc.
 Available in several models. Delivered in sachets of 4 fasteners.



Part No.	Description	Finish	Size	Distance from the wall	Material thickness	Inside Diameter	Pack of
19471	4 rounded spacers	golden	Ø 15 mm (0.59")	26 mm (1.02")	0 - 14 mm (0 - 0.55")	9 mm (.35")	4
19472	4 rounded spacers	silver	Ø 15 mm (0.59")	26 mm (1.02")	0 - 14 mm (0 - 0.55")	9 mm (.35")	4

Plant label holder

Ideal for 1.6 mm (1/16") thick material.

Aluminium

Tilted model, shaft length 300 mm (11.81")
 for labels 120 x 53 mm (4.72 x 2.08")
 Ref. 30149



Zinc-plated steel

Straight model, shaft length 600 mm (23.62")
 for labels 120 x 48 mm (4.72 x 1.89")
 Ref. 30150



Identification labels for electrical applications

Choose your colours among the corresponding material range.

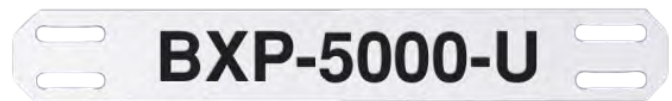
CABLES TAGS WITH NOTCHES

Gravoply™ 1
1.5 mm (1/16") thick
Size 150 x 11 mm (5.90 x .43")
with 4 die-cut sides for mounting with hose clamps



TIE ON CABLE TAGS CUT CORNERS

Gravoply™ 2
0.8 mm (1/32") thick
Size 85 x 12 mm (3.34 x .47")
With 4 oblong holes 8 x 2 mm (.31 x .078")



TIE ON CABLE TAGS TYPE 425

Gravoxal™ glossy black
1.5 mm (1/16") thick
Size 60 x 18 mm (2.36 x .70")
With rounded corners R = 3 mm (.11")
With 4 oblong holes 10 x 2.2 mm (.39 x .08")



TIE ON CABLE TAGS TYPE 430

Gravoply™ 1 or Gravoply™ 2
0.8 mm (1/32") thick
Size 120 x 20 mm (4.72 x .78")
With 4 oblong holes 6.5 x 3 mm (.25 x .11")
Available with 2 pre-engraved lines on request
Also available in 1.6 mm (1/16") thick material on request



CIRCULAR BLANKS TYPE 420

Gravoply™ 1 or Gravoply™ 2
20 or 25 mm (.78 or .98") Ø
With 3 holes of 2.5 mm (0.1") Ø

Gravoxal™
1 mm (.039") thick
25 mm (0.98") Ø
With 3 holes of 2.5 mm (.1") Ø



LEGEND PLATES TYPE 440

For identifying electrical switches

Size 30 x 40 mm (1.18 x 1.57")

With a Ø 22.5 or 24.5 mm (0.88 or 0.96") hole off-centre

Packaged by 50 units of identical reference



		Gravoply™ 1 - 1,6 mm (1/16")		Gravoply™ 2 - 0,8 mm (1/32")		Gravoply™ 2 double-sided - 0,8 mm (1/32")			
		Diameter 22,5 mm (0.88")	Diameter 24,5 mm (0.96")	Diameter 22,5 mm (0.88")	Diameter 24,5 mm (0.96")	Diameter 22,5 mm (0.88")	Diameter 24,5 mm (0.96")		
Black/White		19243	19244	22071	22072	19240	19241	-	-
White/Black		19244	19245	22072	22073	19241	19242	-	-
Red/White		19245	19246	22073	22074	22066	22067	-	-
Blue/White		19246	-	22074	-	22067	-	-	-
Black/White/Red		-	-	-	-	-	-	22075	22068
White/Black/Yellow		-	-	-	-	-	-	22076	22069
Green/White/Blue		-	-	-	-	-	-	22077	-

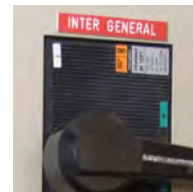
Other dimensions, colours or materials on request

STRIPS

Minimum of order : 25 pieces of identical reference

		Gravoply™ 2 - 1.5 mm (1/16")							
		610x10 mm (24"x0.39")		610x15 mm (24"x0.59")		610x20 mm (24"x0.79")		610x30 mm (24"x1.18")	
		w/o adh.	with adh.	w/o adh.	with adh.	w/o adh.	with adh.	w/o adh.	with adh.
Black/White		19267	19283	19268	19284	19269	19285	19270	19286
White/Black		19271	19287	19272	19288	19273	19289	19274	19290
Red/White		19275	19291	19276	19292	19277	19293	19278	19294
Blue/White		19279	19295	19280	19296	19281	19297	19282	19298

Other dimensions, colours or materials on request



LABELS FOR ELECTRICAL BOARDS

Packaged by 50 units of identical reference

		Gravoply™ 2 - 1.5 mm (1/16") with adh.			
		50x15 mm (1.97"x0.59")	60x15 mm (2.36"x0.59")	60x20 mm (2.36"x0.79")	80x40 mm (3.15"x1.57")
Black/White		19251	19255	19259	19263
White/Black		19252	19256	19260	19264
Red/White		19253	19257	19261	19265
Blue/White		19254	19258	19262	19266

MECHANICAL FASTENINGS

Stainless steel supports, plastic collars, steel collars, ball chains, etc. : see page 60



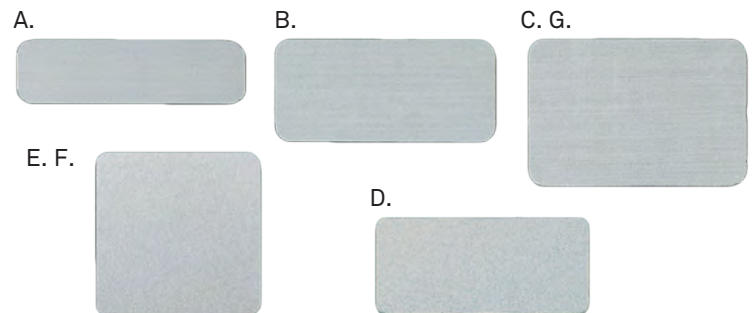
Metallex™ or Gravoply™ 2 inlaid plates

Available in 5 styles

Inlaid and id plates are blanks produced by special in-house tools. For higher volume orders, they offer better value than an equivalent cut to size service.

Our stamped plates are made of Metallex™ or Gravoply™ 2, thickness 0,8 mm (.030") with 4 rounded corners $r = 2$ mm (0.079").

A.	size 27 x 8 mm (1.063 x 0.315")
B.	size 27 x 12.5 mm (1.063 x 0.492")
C.	size 27 x 18 mm (1.063 x 0.709")
D.	size 22 x 10 mm (0.866 x 0.394")
E.	size 22 x 22 mm (0.866 x 0.866")
F.	size 27 x 27 mm (1.063 x 1.063")
G.	size 27 x 19 mm (1.063 x 0.748")



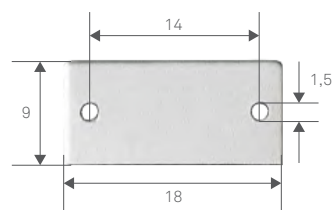
ID plates and labels

Available in 6 styles

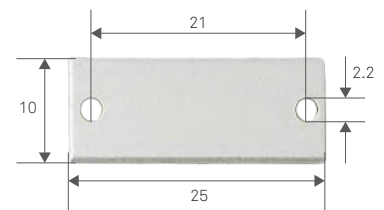
Our ID plates and labels are made of Gravoply™ 1, Gravoply™ 2, Metallex™, 0.8 mm (.030") thick or Gravoxal™, 1.0 mm (.040") thick and feature two drilled holes:

1.	\varnothing 1.5 mm (0.059"), hole spacing 14 mm (0.551")
2.	\varnothing 2.2 mm (0.087"), hole spacing 21 mm (0.827")
2a.	\varnothing 2.5 mm (0.098"), hole spacing 18 mm (0.709")
3.	\varnothing 2.2 mm (0.087"), hole spacing 26 mm (1.024")
3a.	\varnothing 2.5 mm (0.098"), hole spacing 25 mm (0.984"), $r = 1.25$ mm (0.049")
4.	\varnothing 2.5 mm (0.098"), hole spacing 30 mm (1.181")

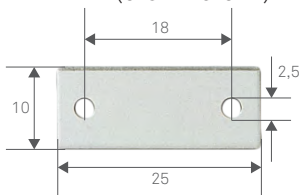
1. size 18 x 9 mm (7.09 x 3.54")



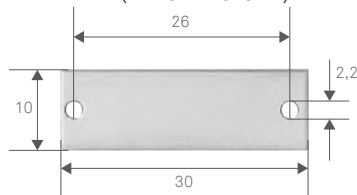
2. size 25 x 10 mm (9.84 x 3.94")



2a. size 25 x 10 mm (9.84 x 3.94")



3. size 30 x 10 mm (11.81 x 3.94")



3a. size 30 x 10 mm (11.81 x 3.94")



4. size 37 x 13 mm (14.57 x 5.12")



Tags

Choose your tags from our selection

ALUMINIUM TAGS

Anodised aluminium
 1.5 mm (1/16") thick
 Hole diameter 4 mm (.15")
 Packaged by 10 units of identical reference



	Round			Shaped		Rectangular
	30 mm (1.18")	38 mm (1.49")	50 mm (1.96")	65 x 30 mm (2.55" x 1.18")	90 x 40 mm (3.54" x 1.57")	40 x 16 mm (1.57" x 0.62")
red	30137	30141	30145	19193	19197	19189
blue	30138	30142	30146	19194	19198	19190
green	30139	30143	30147	19195	19199	19191
gold	30136	30140	30144	19196	19200	19192

Custom-made key tags

We can custom manufacture your plastic tags for you.

Choose the plastic material, colour and thickness (2.4 mm (3/32") recommended) for your custom-made key tag blanks.
 Packaged by 50 identical references
 See range of fasteners p.60.



Round tag
 Ø 30 mm (1.18")
 Hole diameter 4 mm (0.16")

Teardrop tag
 Size 46 x 28 mm (1.81 x 1.10")
 Hole diameter 4 mm (0.16")

Hexagonal tag
 Size 58 x 37 mm (2.28 x 1.45")
 Hole diameter 4 mm (0.16")



Choose your badges from our selection

Ready-made badges


Ready-made badges save you time and money. Choose your badge with the fixing from our selection; all you have to do is engrave! 2.4 mm thick, square corners, bevelled edges, ready-attached metal fasteners; see range of fasteners for heat fusing overleaf. Packaged by 50 identical badges.







Gravoply™ 1



		64 x 16 mm (2.51" x 0.62")			75 x 20 mm (2.95" x 0.78")		
		Safety pin	Snap clip	Clutch	Safety pin	Snap clip	Clutch
white / black		30169	30171	30172	30205	30207	30208
yellow / black		30187	30189	30190	30223	30225	30226
red / white		30175	30177	30178	30211	30213	30214
azure blue / white		30181	30183	30184	30217	30219	30220
pine green / white		30193	30195	30196	30229	30231	30232
black / white		30163	30165	30166	30199	30201	30202

Gravoply™ 2



		64 x 16 mm (2.51" x 0.62")			75 x 20 mm (2.95" x 0.78")		
		Safety pin	Snap clip	Clutch	Safety pin	Snap clip	Clutch
white / black		30241	30243	30244	30277	30279	30280
yellow / black		30259	30261	30262	30295	30297	30298
red / white		30247	30249	30250	30283	30285	30286
blue / white		30253	30255	30256	30289	30291	30292
pine green / white		30265	30267	30268	30301	30303	30304
black / white		30235	30237	30238	30271	30273	30274



Metallex™



	64 x 16 mm (2.51" x 0.62")			75 x 20 mm (2.95" x 0.78")		
	Safety pin	Snap clip	Clutch	Safety pin	Snap clip	Clutch
glossy silver / black	30313	30315	30316	30337	30339	30340
brushed silver / black	30325	30327	30328	30349	30351	30352
brushed gold / black	30319	30321	30322	30343	30345	30346
glossy gold / black	30307	30309	30310	30331	30333	30334

Custom-made badges

We can custom fabricate your plastic or brass sheet badge. Specify: shape, size and material, fastener, fused, cemented or bonded hardware; rounded or square corners; bevel or no-bevel finished edges. Hot-stamping / Silk-screen / Digital printing to add a coloured logo or inscription on badges, ID plates, etc.



Type of fasteners for heat fusing in our workshop



Clutch
Ref. 30358



Snap clip - swivel
Ref. 30357



Safety pin
Ref. 30355

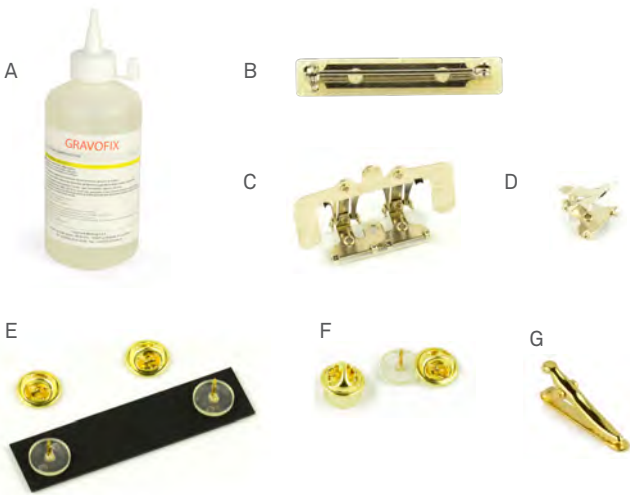


Create your own badges

If you prefer to make your badges yourself, choose from our Gravograph materials and select the fixing among the selection below.

Hardware for self-assembly

Use Gravofix (except model G) to apply the fastener of your choice on your badge. Quick and easy, durable hold.

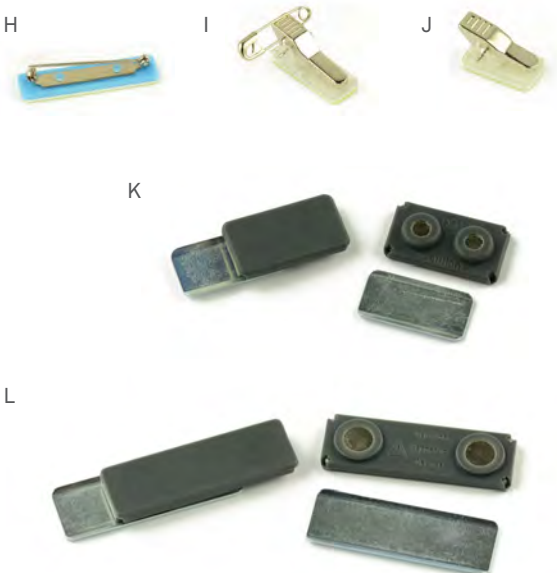


	Dimensions	Packaged by	Ref.
A - Gravofix (250 ml - 8.45 oz)	-	1	19360
B - Safety pin	42 x 8 mm (1.65" x 0.31")	50	19345
A+B - Gravofix kit (Gravofix A + 100 safety pins B)	-	-	25730
C - Super clip	26 x 45 mm (1.02" x 1.77")	50	30361
D - Snap clip - swivel	∅ 12mm (0.47")	50	19346
E - Clutch bar	-	20	30362
F - Pin with clutch	∅ 11 mm (0.43")	50	30363
G - Crocodile Clip *	40 x 6 mm (1.57" x 0.23")	10	30367

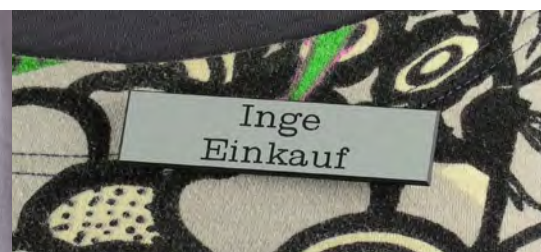
* This badge fastener requires fixing with a 2-component bond.

Pressure-sensitive hardware

Simple, quick and effective. 6 models of adhesive backing hardware. Simply peel back the liner and attach the adhesive bonds to the badge.

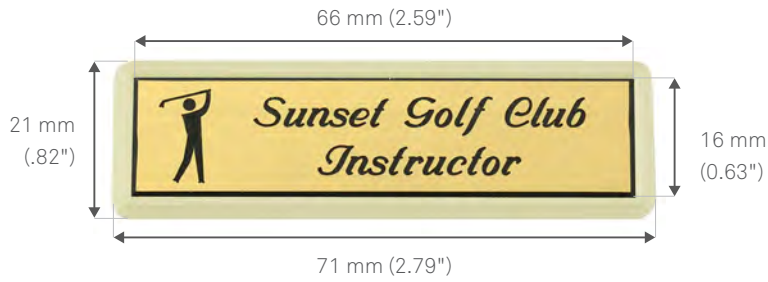


	Dimensions	Packaged by	Ref.
H - Safety pin	42 x 9 mm (1.65" x 0.35")	50	30364
I - Universal clip with pin	24 x 12 mm (0.94" x 0.47")	50	19358
J - Alligator clip	24 x 13 mm (0.94" x 0.51")	50	30366
K - Standard magnetic fastener	25 x 15 mm (0.98" x 0.59")	10	19362
L - Jumbo magnetic fastener	45 x 15 mm (1.77" x 0.59")	10	30365



Plastic frames

Add a touch of elegance to any badge.
Ideal for 0.8 mm (1/32") thick material.
Delivered without fastener.



White
Packaged by 50
Ref. 19353



Silver
Packaged by 50
Ref. 19355



Gold
Packaged by 50
Ref. 19354



Black
Packaged by 50
Ref. 19352

Card holders

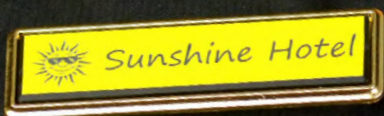
Another way to fix your badge or card.



Swivel fastener with clip
Packaged by 50
Ref. 19357



Clear vinyl badge holder
Packaged by 50
Delivered without swivel fastener
Ref. 19356



Premium solid brass door plates

All door plates have a varnished surface to protect against oxidation.



A. 110 x 40 mm
(4.33" x 1.58")



B. 105 x 42 mm
(4.14" x 1.65")



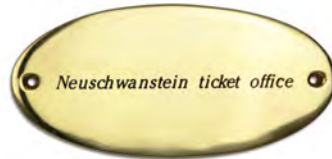
C. 105 x 54 mm
(4.14" x 2.13")



D. 100 x 40 mm
(3.94" x 1.58")



E. 83 x 48 mm
(3.27" x 1.89")



F. 135 x 65 mm
(5.32" x 2.56")



G. 130 x 30 mm
(5.12" x 1.18")



H. 97 x 33 mm
(3.82" x 1.30")



I. 160 x 60 mm
(6.30" x 2.36")



J. 100 x 28 mm
(3.94" x 1.10")



K. 122 x 42 mm
(4.81" x 1.65")



L. 115 x 40 mm
(4.53" x 1.58")



M. 175 x 100 mm
(6.90" x 3.94")



N. 66 x 37 mm
(2.60" x 1.46")

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	
Packaged by	1	30080	21812	22088	22089	22090	22091	22092	22093	22094	22095	22096	30085	30083	27487
	6	78937	78927	78929	78935	78932	78931	78938	78936	78926	78930	78928	78933	78934	78939

All door plates, except model J, are delivered with screws.



Gold'n door range

Very high quality varnish, easy to engrave.



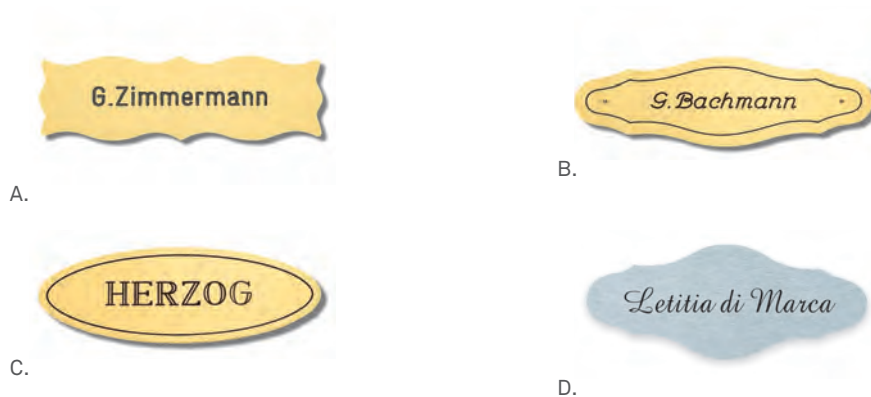
U.1	Rec'n Wave 150 x 50 mm (5.61" x 1.97")	48336
U.2		48335
V.1	Rec'n Round 145 x 45 mm (5.71" x 1.77")	48338
V.2		48337
W.1	Oval 135 x 65 mm (5.32" x 2.56")	48334
W.2		48333
X.	Domed 150 x 85 mm (5.91" x 3.35")	48339

Model X delivered with screws.

You can use Gravograph recommended colouring products to colour your engraved items. See p.55.

Custom door plates

Choose your colours among the corresponding material range.
Packaged by 5 units of identical reference.



		Gravoply™ 1 1,6 mm (1/16")	Gravoply™ 2 1,5 mm (1/16")	Metallex™ 1,5 mm (1/16")	Gravometal™ 0,6 mm (.025")	Gravoxal™, steel look 1,5 mm (1/16")
A.	125 x 40 mm (4.93" x 1.58")	30086	30087	30088	30089	30102
B.	125 x 42 mm (4.93" x 1.65")	30090	30091	30092	30093	30103
C.	115 x 45 mm (4.53" x 1.77")	30094	30095	30096	30097	30104
D.	180 x 80 mm (7.09" x 3.15")	30098	30099	30100	30101	30105

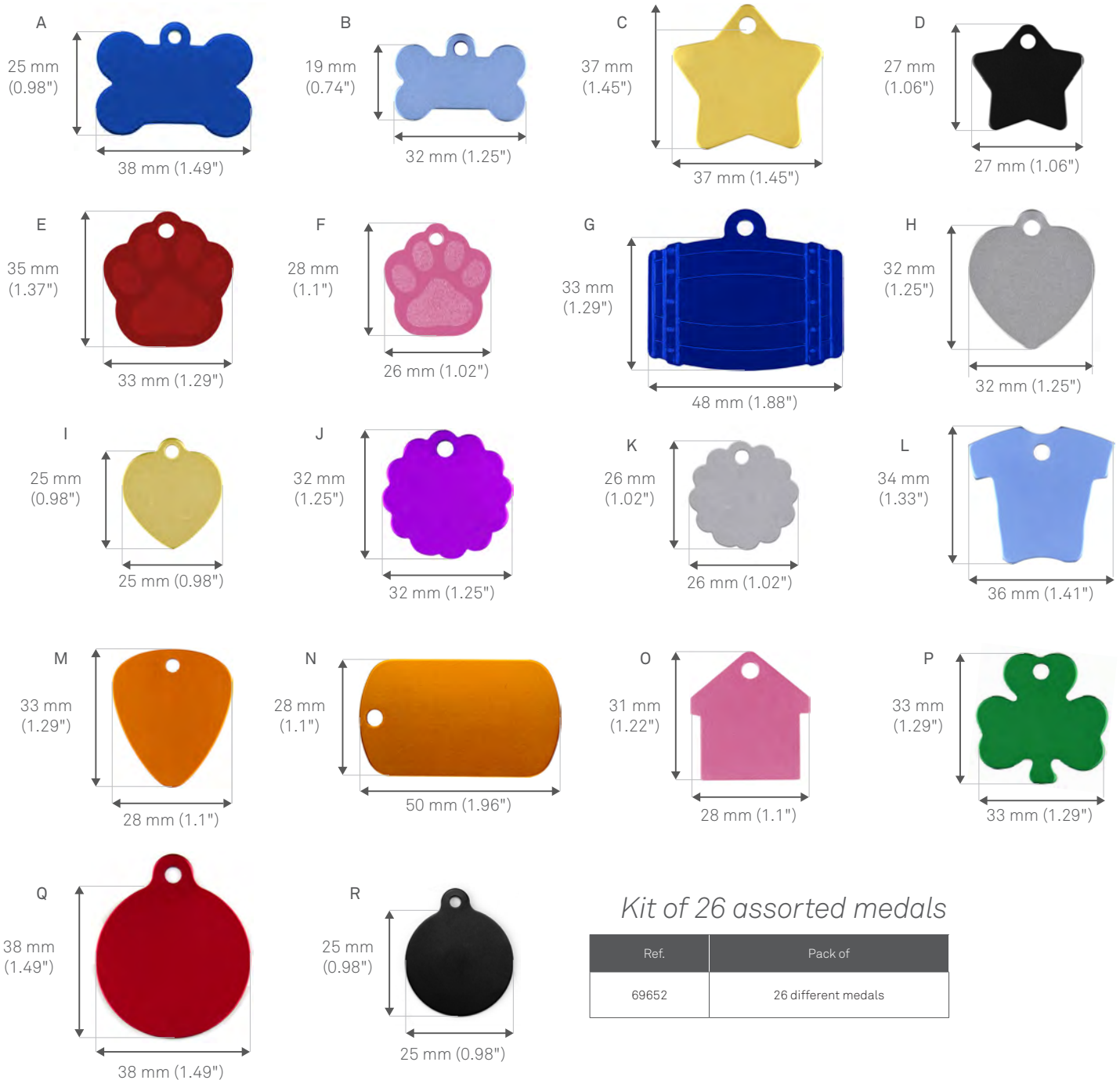


Anodised aluminium range

A large and trendy range: 18 shapes, 10 colours, 180 models, packaged by 10 or 50.

Compatible engraving technologies: laser engraving*, rotary engraving, diamond marking.

* Golden and aluminium medals are not suitable for colour contrasting with laser engraving.



Kit of 26 assorted medals

Ref.	Pack of
69652	26 different medals

Anodising process may produce slightly different colours from one batch to another. Printed colours for indication only.



	Pack of	silver	gold	blue	light blue	red	green	purple	orange	pink	black
A	10	69285	69286	69287	69288	69289	69290	69291	69292	69293	69294
	50	69479	69480	69481	69482	69483	69484	69485	69486	69487	69488
B	10	69295	69296	69297	69298	69299	69300	69301	69302	69303	69304
	50	69489	69490	69491	69492	69493	69494	69495	69496	69497	69498
C	10	69375	69376	69377	69378	69379	69380	69381	69382	69383	69384
	50	69569	69570	69571	69572	69573	69574	69575	69576	69577	69578
D	10	69385	69386	69387	69388	69389	69390	69391	69392	69393	69394
	50	69579	69580	69581	69582	69583	69584	69585	69586	69587	69588
E	10	69305	69306	69307	69308	69309	69310	69311	69312	69313	69314
	50	69499	69500	69501	69502	69503	69504	69505	69506	69507	69508
F	10	69315	69316	69317	69318	69319	69320	69321	69322	69323	69324
	50	69509	69510	69511	69512	69513	69514	69515	69516	69517	69518
G	10	69355	69356	69357	69358	69359	69360	69361	69362	69363	69364
	50	69549	69550	69551	69552	69553	69554	69555	69556	69557	69558
H	10	69265	69266	69267	69268	69269	69270	69271	69272	69273	69274
	50	69459	69460	69461	69462	69463	69464	69465	69466	69467	69468
I	10	69275	69276	69277	69278	69279	69280	69281	69282	69283	69284
	50	69469	69470	69471	69472	69473	69474	69475	69476	69477	69478
J	10	69425	69426	69428	69429	69430	69431	69432	69433	69434	69435
	50	69619	69620	69621	69622	69623	69624	69625	69626	69627	69628
K	10	69436	69437	69438	69439	69440	69441	69442	69443	69444	69445
	50	69629	69630	69631	69632	69633	69634	69635	69636	69637	69638
L	10	69395	69396	69397	69398	69399	69400	69401	69402	69403	69404
	50	69589	69590	69591	69592	69593	69594	69595	69596	69597	69598
M	10	69405	69406	69407	69408	69409	69410	69411	69412	69413	69414
	50	69599	69600	69601	69602	69603	69604	69605	69606	69607	69608
N	10	69365	69366	69367	69368	69369	69370	69371	69372	69373	69374
	50	69559	69560	69561	69562	69563	69564	69565	69566	69567	69568
O	10	69345	69346	69347	69348	69349	69350	69351	69352	69353	69354
	50	69539	69540	69541	69542	69543	69544	69545	69546	69547	69548
P	10	69415	69416	69417	69418	69419	69420	69421	69422	69423	69424
	50	69609	69610	69611	69612	69613	69614	69615	69616	69617	69618
Q	10	69335	69336	69337	69338	69339	69340	69341	69342	69343	69344
	50	69529	69530	69531	69532	69533	69534	69535	69536	69537	69538
R	10	69325	69326	69327	69328	69329	69330	69331	69332	69333	69334
	50	69519	69520	69521	69522	69523	69524	69525	69526	69527	69528

Stainless steel ball chains

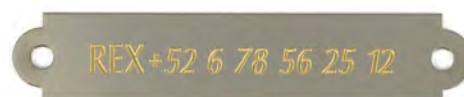
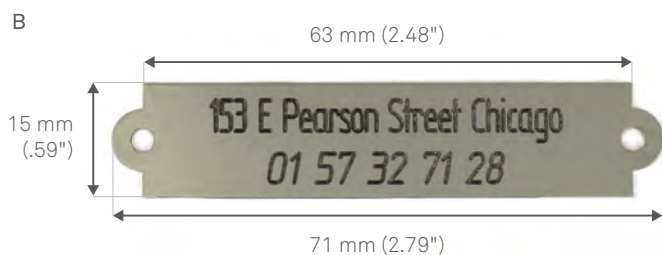
Choose the chain assorted to your medal or mix colours! 10 colours available.



	Pack of 10	Pack of 50
silver	69880	69881
gold	69883	69884
blue	69446	69639
red	69447	69640
green	69448	69641
purple	69449	69642
orange	69450	69643
pink	69451	69644
black	69452	69645
white	69453	69646



Golden and nickel-plated brass



	Pack of	Golden	Nickel-plated	Hole diameter
A	10	23906	-	Ø 3.5 mm (0.14")
	50	-	47820	Ø 3 mm (0.12")
B	10	-	19306	Ø 3 mm (0.12")
	50	47818	19304	Ø 3 mm (0.12")
C	10	47818	47819	Ø 3 mm (0.12")
	50	19305	19304	Ø 3 mm (0.12")
D	10	47813	47810	Ø 4 mm (0.16")
	50	22065	13012	Ø 4 mm (0.16")
E	10	47812	47809	Ø 4 mm (0.16")
	50	13016	19318	Ø 4 mm (0.16")
F	10	47811	47808	Ø 4 mm (0.16")
	50	19317	19316	Ø 4 mm (0.16")

* You can use Gravograph recommended colouring products to colour your engraved item. See p.55.



Stainless steel range

(Pack of 10)

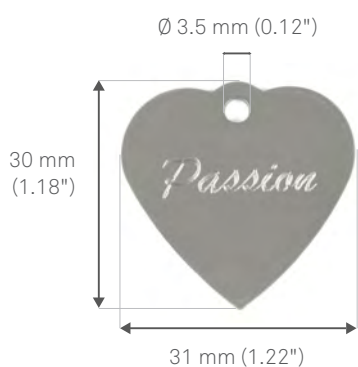
G
Ref. 30161



H
Ref. 30162



I
Ref. 23907



Ties

Ideal to fix all your medals and tags.

"S"-Hook (pack of 25).



Zinc-plated steel, length 18 mm (0.7")
Ref. 23919



Golden brass, length 21 mm (0.82")
Ref. 30152



Zinc-plated brass, length 26 mm (1.02")
Ref. 30151

Ring (pack of 100)



Nickel-plated steel
ø 13 mm (0.51")
Ref. 19532



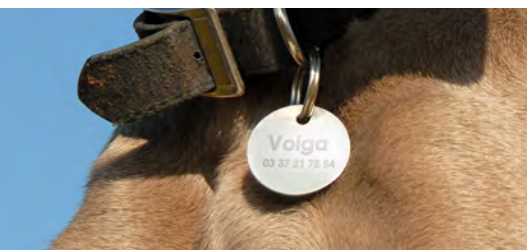
Nickel-plated steel
ø 20 mm (0.78")
Ref. 19530



Golden brass
ø 13 mm (0.51")
Ref. 19533



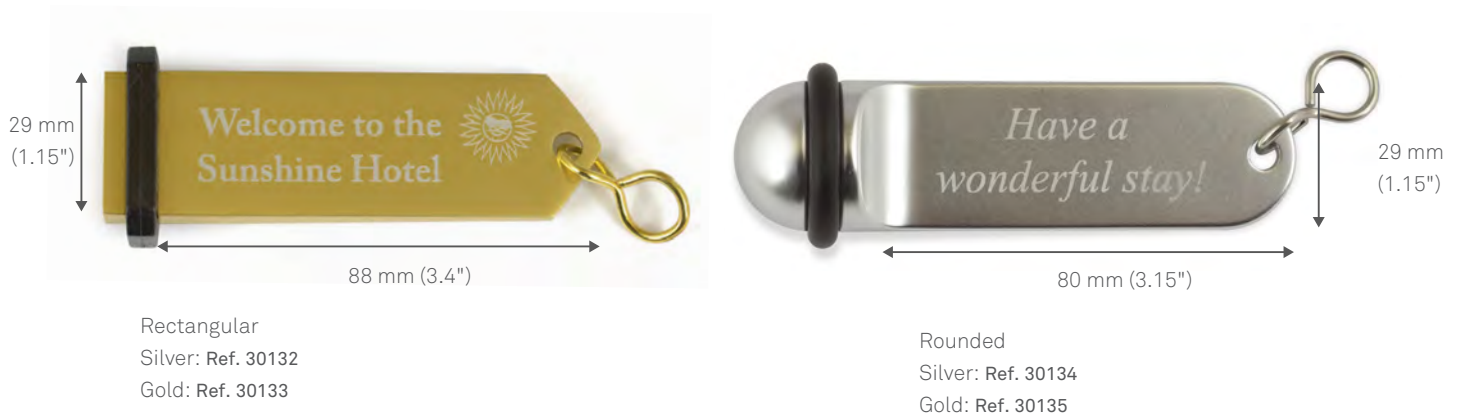
Golden brass
ø 20 mm (0.78")
Ref. 19531



A selection of key rings to personalize. Different shapes, different materials.
You can use Gravograph recommended colouring products to colour your engraved item. See p.55.

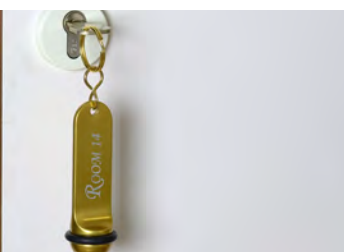
Aluminium hotel key rings

Compatible engraving technologies: rotary and laser engraving.



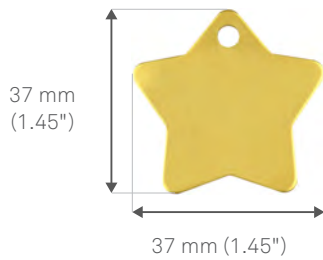
Nickel key ring with matt finish

Compatible engraving technologies: rotary engraving and diamond marking.

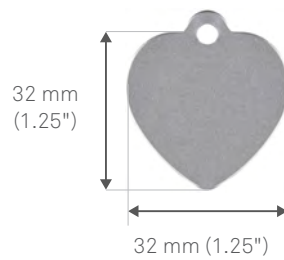


Aluminium key rings

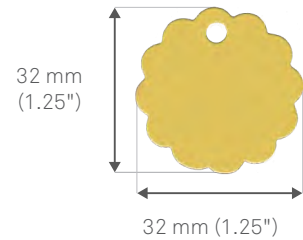
Compatible engraving technologies: diamond marking, rotary and laser engraving.
(Pack of 10, delivered without ties).



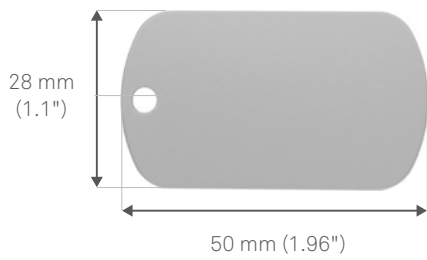
Star
Silver: Réf. 69375
Gold: Réf. 69376



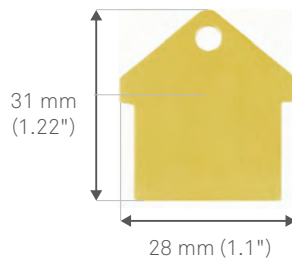
Heart
Silver: Réf. 69265
Gold: Réf. 69266



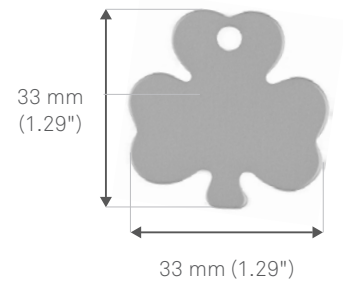
Cloud
Silver: Réf. 69425
Gold: Réf. 69426



G.I tag
Silver: Réf. 69365
Gold: Réf. 69366



House
Silver: Réf. 69345
Gold: Réf. 69346



Clover
Silver: Réf. 69415
Gold: Réf. 69416

Ties

Ring (pack of 100).



Nickel-plated steel
ø 13 mm (0.51")
Ref. 19532



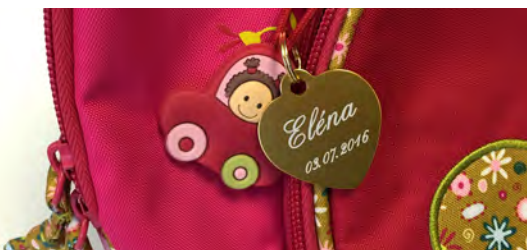
Nickel-plated steel
ø 20 mm (0.78")
Ref. 19530



Golden brass
ø 13 mm (0.51")
Ref. 19533



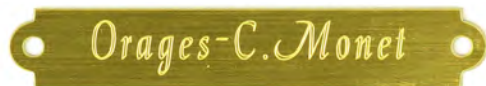
Golden brass
ø 20 mm (0.78")
Ref. 19531



High quality metallic nameplates for gifts, gift boxes and art objects.

With hole diameter 3 mm (1/8")

Packaged by 50 units of identical reference.



	Metallex™ 1.5 mm (1/16")*	Gravometal™ 0.6 mm (.025")*	Gravoxal™, steel look 1.0 mm (.040")	Gravometal™ 0.6 mm (.025")	
				Satin gold	Glossy gold
114.3 x 19 mm (4.50 x 0.75")	30115	30116	30117	-	-
50.8 x 9.5 mm (2 x 0.37")	30109	30110	30111	-	-
63.5 x 9.5 mm (2.50 x 0.37")	30112	30113	30114	-	-
61 x 12 mm (2.40 x 0.47")	22078	-	30124	-	-
76.2 x 12.7 mm (3 x 0.50")	30118	30119	30120	-	-
71 x 15 mm (2.80 x 0.59")	22079	-	30125	-	-
89 x 15.9 mm (3.51 x 0.63")	30121	30122	30123	-	-
61 x 12 mm (2.40 x 0.47")	-	-	-	58786	58785
71 x 15 mm (2.80 x 0.59")	-	-	-	58788	58787

* Choose the colour among Metallex™ and Gravometal™ material ranges.

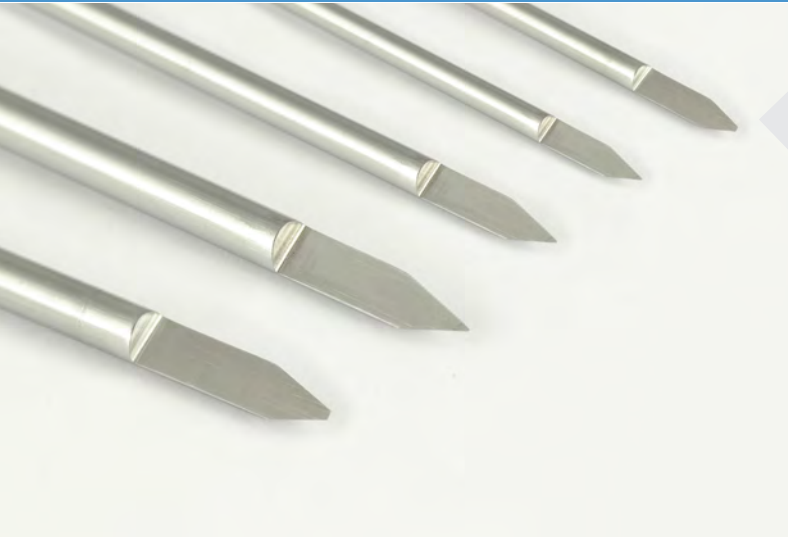
Self-adhesive

Packaged by 50 units of identical reference.



	Gravometal™ 0.6 mm (.025")		Gravoxal™, steel look 1.0 mm (.040")
	satin silver	49125	
40 x 10 mm (1.58 x 0.39") self-adhesive	satin gold	61323	30128
	glossy gold	49577	





ONECUT

Efficient and convenient!
Most standard cutters are available with either a stainless steel shaft or a micrograin carbide shaft

TWINCUT

The composition tool!
8 insert profiles accessible with a single tool holder
Economical and multifunctional.



PERCUT

Productivity and endurance!
Short tools for demanding machining applications requiring a collet or high-speed spindle

Diamond

Delicacy and precision!
For scribing or dot marking metals and glass.

Rotating or tracing diamonds available in the OneCut and Twincut ranges.



ENGRAVING

Compatible with: M20, IM4, IM3

CONICAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☉ Absolutely suitable

STEEL CARBIDE



■ Suitable

STEEL	A (MM-INCH)	CONICAL	A (INCH - MM)	CARBIDE
48773	0,10		.004"	-
48774	0,25		.010"	48793
48775	0,32		.013"	48794
48776	0,50		.020"	48795
48777	0,75		.030"	48796
48778	1,00		.040"	48797
48779	1,25		.050"	48798
48780	1,50		.060"	48799
48781	2,00		.080"	48800
48782	3,00		.120"	48801

FLAT END CYLINDRICAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☉ Absolutely suitable

STEEL CARBIDE



■ Suitable

STEEL	A (MM-INCH)	FLAT END CYLINDRICAL	A (INCH - MM)	CARBIDE
48783	1,00		.040"	-
48784	1,50		.060"	-
48785	2,00		.080"	-
48786	2,50		.100"	-
48787	3,00		.120"	51372

ROUND END CYLINDRICAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☉ Absolutely suitable

STEEL



■ Suitable

STEEL	A (MM-INCH)	ROUND END CYLINDRICAL	Notes
48788	1,00	.040"	<p>The use of a chip collector optimises the removal of swarf and greatly facilitates cleaning operations on engraved plates.</p> <p>47645 (U.S. plug) 47642 (Eur plug) 47644 (Swiss plug) 47643 (British plug)</p>
48789	1,50	.060"	
48790	2,00	.080"	
48791	2,50	.100"	
48792	3,00	.120"	

SPECIAL CONICAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Soft plastics

Leathers and derived products

Phenolic

Gold/Silver

☉ Absolutely suitable

θ = 37°

θ = 45°



■ Suitable

STEEL (SOFT PLASTICS)	A (MM-INCH)	SPECIAL CONICAL	A (INCH - MM)	CARBIDE (LEATHER)
20171 (37°)	0,32		.013"	
48810 - 01.12			.020"	



Compatible with: M20, IM4, IM3

BEVELLING

STEEL	A (MM-INCH)	SPECIAL	A (INCH - MM)	CARBIDE
48802*	0,25 .010"	15°	.010" 0,25	-
48807*	0,25 .010"	45°	.010" 0,25	51368*
48806*	3,00 .120"	90°	.120" 3,00	51372*

* Recommended tools for the B4 beveling machine.

CONICAL FOR BEVELLING

COMPATIBLE MATERIALS	STEEL	CARBIDE
Gravoply™, Metallex™ & Gravoglas™, Acrylic	●	■
Leathers and derived products		■
Phenolic		■
Gold/Silver	■	■
Aluminium/Brass	■	●
Steel/Stainless steel		

● Absolutely suitable ■ Suitable

CONICAL	A (MM - INCH)	CONICAL	A (INCH - MM)	CONICAL
20149	0,10 .004"	126,5°	.004" 0,10	33954 (20147)
Rotating	Non Rotating	Designed for Feather Touch Use		

SCRIBING

SCRIBING DIAMOND

COMPATIBLE MATERIALS	ROTATING	NON ROTATING
Gravoply™, Metallex™ & Gravoglas™, Acrylics		
Leathers and derived products		
Glass & Mirrors	●	■
Gold / Silver	■	●
Aluminium / Brass	■	■
Steel/Stainless steel	■	

● Absolutely suitable ■ Suitable

<p>Scribing insert: IM3 / IF3 DIAMOND VX DIAMOND SPINDLE Non Rotating</p>	.004" 0,10	33827 (12224) L=25.0mm/1.000"
<p>Scribing insert: Diamond spindle : M20 Diamant M20 PIX Non Rotating</p>	.004" 0,10	23061 L=15 mm/0,59"
<p>Scribing insert: Diamond nose (22884) Mod B - Im4 R & RM - M20 & M10 Jewel - RingCube - TagCube Non Rotating</p>	.004" 0,10	28187 (33825-33823-33826) L=7.0 mm/0,275"

Rotating Non Rotating

SCRIBING DIAMOND

COMPATIBLE MATERIALS	DIAMOND
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Glass & Mirrors	■
Gold/Silver	■
Aluminium/Brass	●
Steel/Stainless steel	■

● Absolutely suitable ■ Suitable

ROTATING	CONICAL	A (INCH - MM)
52163		0,127 .005"
52183		0,254 .010"
51089		0,508 .020"
52184		0,762 .030"

Rotating Non Rotating

Designed for Feather Touch Use

M20 = 78163

SCRATCHING DIAMOND

COMPATIBLE MATERIALS	ROTATING
Gravoply™, Metallex™ & Gravoglas™, Acrylics	
Leather & Derived products	
Glass & Mirrors	●
Gold / Silver	
Aluminium / Brass	■
Steel / Stainless steel	


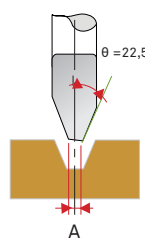

● Absolutely suitable ■ Suitable

ENGRAVING

Compatible with: TXL, IS200, M40, IS400, IS900, IS6000/7000/8000


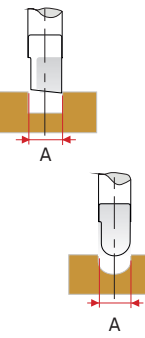

STANDARD CONICAL

	STEEL	CARBIDE
COMPATIBLE MATERIALS		
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products		
Phenolic		☉
Gold/Silver	■	■
Aluminium/Brass	■	■
Steel/Stainless steel		
☉ Absolutely suitable	■ Suitable	

STEEL	A (MM - INCH)	CONICAL	A (INCH - MM)	CARBIDE
	48808 — 0,10 — .004"		.004" 0,10 — -	
	48809 — 0,25 — .010"		.010" 0,25 — 48820	
	48810 — 0,32 — .013"		.013" 0,32 — 48821	
	48811 — 0,50 — .020"		.020" 0,50 — 48822	
	48812 — 0,75 — .030"		.030" 0,75 — 48823	
	48813 — 1,00 — .040"		.040" 1,00 — 48824	
	48814 — 1,25 — .050"		.050" 1,25 — 48825	
	48815 — 1,50 — .060"		.060" 1,50 — 48826	
	48816 — 2,00 — .080"		.080" 2,00 — 48827	
	48818 — 3,00 — .120"		.120" 3,00 — 48828	
	48819 — 4,00 — .160"		.160" 4,00 — 48829	


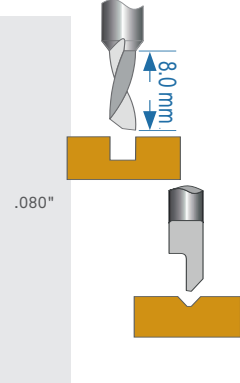
FLAT END CYLINDRICAL

	FLAT END	CYLINDRIC.
COMPATIBLE MATERIALS		
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products		
Phenolic		
Gold/Silver	■	■
Aluminium/Brass	■	■
Steel/Stainless steel		
☉ Absolutely suitable	■ Suitable	

STEEL	A (MM - INCH)	FLAT END & CYLINDRICAL	A (MM - INCH)	STEEL
	51355 — 1,00 — .040"		.040" 1,00 — 51362	
	51356 — 1,50 — .060"		.060" 1,50 — 51363	
	51358 — 2,00 — .080"		.080" 2,00 — 51364	
	51359 — 2,50 — .100"		.100" 2,50 — 51365	
	51360 — 3,00 — .120"		.120" 3,00 — 51366	
	51361 — 3,50 — .140"		.140" 3,50 — 51367	
	48834 — 4,00 — .160"		.160" 4,00 — 48835	

ROUND END CYLINDRICAL

	1/4 ROUNDED	CYLINDRIC.
COMPATIBLE MATERIALS		
Gravoply™, Metallex™ & Gravoglas™, Acrylic		☉
Leathers and derived products		
Phenolic		
Gold/Silver	■	■
Aluminium/Brass	☉	■
Steel/Stainless steel		
☉ Absolutely suitable	■ Suitable	

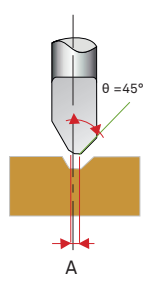

	A (INCH - MM)	CARBIDE
	80227 — 2,00 — .080"	
	.013" 0,32 — 51373	
	.020" 0,50 — 51374	
	.030" 0,75 — 51375	
	.050" 1,25 — 51376	
	.080" 2,00 — 51377	

SPECIAL CONICAL

	CARBIDE
COMPATIBLE MATERIALS	
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Soft plastics	
Leathers and derived products	☉
☉ Absolutely suitable	■ Suitable

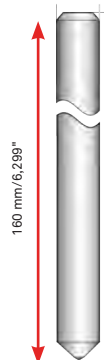


The use of a chip collector is recommended for all types of tools.



A (INCH - MM)	CARBIDE (LEATHER)
.013" 0,32 — 48972	
	



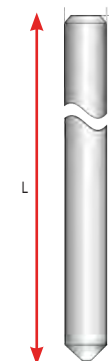


Compatible with: TXL, IS200, M40, IS400, IS900, IS6000/7000/8000

ROTATIVE	A (MM - INCH)	DIAMOND	A (INCH - MM)	NON ROTATIVE
 <p>12909 (Faceted) — 0,10 34095 (Conical) — 0,50</p> <p>Rotating  Non Rotating </p>	<p>.004" — 120,0° .020" — 130,0° .020" — 126,5°</p>	<p>.020" 0,50 — 34094 (21050)</p>	<p>160 mm/6,299"</p>	<p>160 mm/6,299"</p>

Designed for Feather Touch Use

CONICAL & FACETED DIAMOND

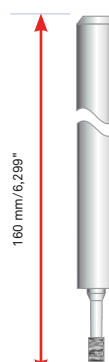


	ROTATING DIAMOND	NON ROTATING DIAMOND
COMPATIBLE MATERIALS	12909 34095	34094
Glass & Mirror	<input checked="" type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/>
Gold/Silver	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/> <input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable

FACETED	A (MM - INCH)	DIAMOND	L
 <p>77659 — 0,25 34122 — 0,25 34123 — 0,38 34124 — 0,76</p> <p>Rotating  Non Rotating </p>	<p>.010" — 130mm/5.118" .010" — 160mm/6.299" .015" — 160mm/6.299" .030" — 160mm/6.299"</p>	<p>110°</p> <p>A</p>	<p>M40 = 78161 IS = 78465</p>

Designed for Feather Touch Use

FACETED DIAMOND

	FACETED DIAMOND
COMPATIBLE MATERIALS	
Plastics	<input type="checkbox"/>
Leathers and derived products	<input type="checkbox"/>
Glass & Mirror	<input checked="" type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Absolutely suitable <input type="checkbox"/> Suitable


DIAMOND CONICAL	SPECIAL DIAMOND	A (INCH - MM)	DIAMOND CONICAL
 <p>20932 — 1,60 20933</p> <p>Rotating  Non Rotating </p>	<p>.063"</p>	<p>.030" 0,75 — 34119 (27044) .060" 1,50 — 34120 (21753) .090" 2,30 — 34121</p>	<p>160 mm/6,299"</p>

Designed for Feather Touch Use

SPECIAL

	DIAMOND BALL	DIAMOND CONICAL
COMPATIBLE MATERIALS		
Plastics	<input type="checkbox"/>	<input type="checkbox"/>
Leathers and derived products	<input type="checkbox"/>	<input type="checkbox"/>
Phenolic	<input type="checkbox"/>	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
Glass & Mirrors	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Granite	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable

WRITE/DRAW

	STYLUS
 <p>Assembled stylus bit 21679</p>	 <p>160 mm/6,299"</p>
 <p>CROSS Stylus Refill 12374</p>	

Ideal for performing a test prior to engraving

	STYLUS
COMPATIBLE MATERIALS	
Gravoply™, Metallex™ & Gravoglas™, Acrylic	<input type="checkbox"/>
Leathers and derived products	<input type="checkbox"/>
Phenolic	<input type="checkbox"/>
Paper	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/> Absolutely suitable <input type="checkbox"/> Suitable

BEVELLING

Compatible with: TXL, IS200, M40, IS400, IS900, IS6000/7000/8000

SPECIAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

⊙ Absolutely suitable ■ Suitable

STEEL CARBIDE



	STEEL	A (MM - INCH)	SPECIAL	A (INCH - MM)	CARBIDE
	48830*	0,25 .010"	15°	.010" 0,25	-
	48832	0,25 .010"	22,5°	.010" 0,25	-
	48831	0,25 .010"	45°	.010" 0,25	21038
	-	3,00 .120"	90°	.120" 3,00	21041

DRILLING AND CUTTING

HELICAL

COMPATIBLE MATERIALS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

⊙ Absolutely suitable ■ Suitable

CARBIDE



To choose your tool, consult the Braille tool selection assistance guide below.

The chip collector use is essential for all drilling operations.



	HELICAL	A (INCH - MM)	CARBIDE
	.061"	1,550	48766
	.062"	1,565	48767
	.063"	1,580	48768



BRILLE TOOL SELECTION GUIDE

- ref: 48686 - Tool width 1.500 mm
- ref: 48766 - Tool width 1.550 mm
- ref: 48767 - Tool width 1.565 mm
- ref: 48768 - Tool width 1.580 mm

	Adhesive-free materials			Materials with adhesive
	Steel beads	Brass beads	Acrylic beads	All beads
Metals	48767	48766	48767	48768
Acrylic	48767	48766	48767	48768
Gravotac™	48766	48766	48766	48768
Phenolic	48767	48766	48767	48768
ABS +2 Ply™	48686	48686	48686	48767

SEMI-FINISHED CARBIDE TOOLS

READY TO GRIND



MORE INFORMATION ABOUT CG30 GRINDER. AVAILABLE - Page 105

	MM	
	3.17-1/8"	L L1
	30046	105.0 / 4.134" 13.0 / 0.511"
	4.36-11/64"	L L1
	73011	50.0 / 1.968" 13.0 / 0.511"
	6.35-1/4"	L L1
	28082	160.0 / 6.299" 13.0 / 0.511"
	6.35-1/4"	L L1
	73012	50.0 / 1.968" 13.0 / 0.511"
	6.35-1/4"	L L1
	73013	50.0 16.0 / 0630"

Solid carbide

Compatible with: IS400, IS900, IS6000/7000/8000 & biseauteuse B6

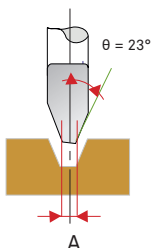
ENGRAVING

CONICAL

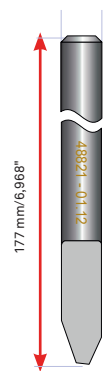
A (INCH - MM)

CARBIDE

For machines:
- VB PANTOGRAPH
- IS400 - IS900 IQ
- IS6000 - IS7000 - IS8000 IQ&XP
equipped with a collet spindle



.013"	0,32		48836
.020"	0,50		48837
.030"	0,75		48838
.050"	1,25		48839
.080"	2,00		48840
.125"	3,17		48841
.236"	6,00		48842



CONICAL FOR BEVELLING

COMPATIBLE MATERIALS

COMPATIBLE MATERIALS	CARBIDE
Gravoply™, Metallex™ & Gravoglas™, Acrylic	<input checked="" type="checkbox"/>
Leathers and derived products	<input type="checkbox"/>
Phenolic	<input checked="" type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>

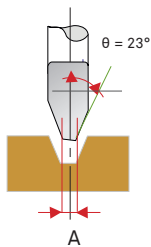
Absolutely suitable Suitable

CONICAL

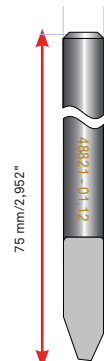
A (INCH - MM)

CARBIDE

For machines:
- VB PANTOGRAPH
- IS400 - IS900 IQ
- IS6000 - IS7000 - IS8000 IQ&XP
equipped with a collet spindle



.013"	0,32		48843
.125"	3,17		48844



STANDARD CONICAL

COMPATIBLE MATERIALS

COMPATIBLE MATERIALS	CARBIDE
Gravoply™, Metallex™ & Gravoglas™, Acrylic	<input checked="" type="checkbox"/>
Phenolic	<input checked="" type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>

Absolutely suitable Suitable

SPECIAL

A (INCH - MM)

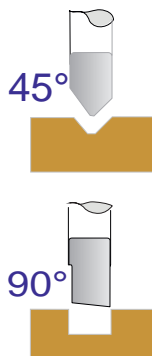
CARBIDE

Bevel router bits

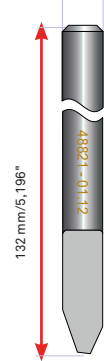
To be installed only on the B6 beveling machine



They can be used on IS machines equipped with a collet spindle



.004"	0,10		48846
.236"	6,00		48847



SPECIAL

COMPATIBLE MATERIALS

COMPATIBLE MATERIALS	CARBIDE
Gravoply™, Metallex™ & Gravoglas™, Acrylic	<input checked="" type="checkbox"/>
Phenolic	<input type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Aluminium/Brass	<input checked="" type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>

Absolutely suitable Suitable

SCRATCHING DIAMOND

A (INCH - MM)

DIAMOND

Scribing diamond
Non Rotative
Engraving on ferrous metal and non ferrous metal.
Pantograph IR & IRV
CN machines using a 6.35mm collet spindle.



.004"	0,10		34261 (11890)
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SCRIBING DIAMOND

COMPATIBLE MATERIALS

COMPATIBLE MATERIALS	DIAMOND
Glass & Mirrors	<input checked="" type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Aluminium/Brass	<input checked="" type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>

Absolutely suitable Suitable

Rotating Non Rotating



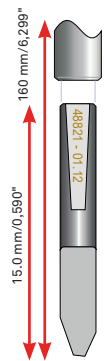
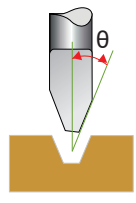
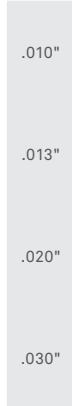

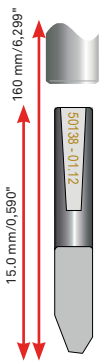
ENGRAVING

Compatible with: TXL, M40, IS200, IS400, IS900, IS6000/7000/8000

STANDARD CONICAL

COMPATIBLE MATERIALS	$\theta = 22.5^\circ$	$\theta = 30^\circ$
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	
Leathers and derived products		
Phenolic	■	
Gold/Silver		☉
Aluminium/Brass	☉	
Steel/Stainless steel		☉

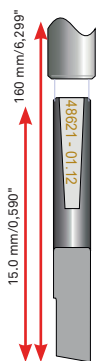
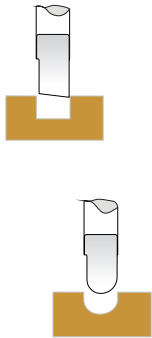
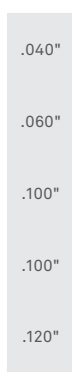

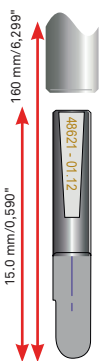
☉ Absolutely suitable ■ Suitable

$\theta = 22.5^\circ$	CARBIDE	A (MM-INCH)	CONICAL	A (INCH - MM)	CARBIDE	$\theta = 30^\circ$			
	48608	— 0,25							
	48609	— 0,32					.010"	0,25	50135
	48610	— 0,50					.013"	0,32	50136
	48611	— 0,75					.020"	0,50	50137
	48612	— 1,00					.030"	0,75	50138
	48613	— 1,25					.040"		
	48614	— 1,50					.050"		
	48615	— 1,75					.060"		
	48616	— 2,00					.069"		
	48617	— 2,50					.100"		
48618	— 3,00	.120"							

CYLINDRICAL

COMPATIBLE MATERIALS	FLAT END	ROUND END
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉	☉
Leathers and derived products		
Phenolic	■	■
Gold/Silver		
Aluminium/Brass	■	■
Steel/Stainless steel		

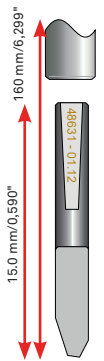
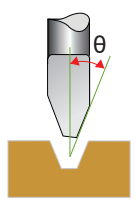

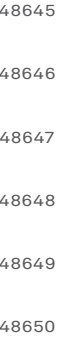
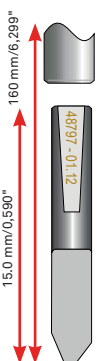
☉ Absolutely suitable ■ Suitable

FLAT END	CARBIDE	A (MM-INCH)	CYLINDRICAL	A (INCH - MM)	CARBIDE	ROUND END			
	48619	— 1,00							
	48620	— 1,50					.040"	1,00	48624
	48621	— 2,00					.060"	1,50	48625
	48622	— 2,50					.100"	2,00	48626
	48623	— 3,00					.100"	2,50	48627
							.120"	3,00	48628

CONICAL

COMPATIBLE MATERIALS	$\theta = 35^\circ$	DOUBLE CONE
Gravoply™, Metallex™ & Gravoglas™, Acrylic		
Leathers and derived products		
Phenolic		
Gold/Silver		
Aluminium/Brass		■
Steel/Stainless steel	☉	☉

☉ Absolutely suitable ■ Suitable

$\theta = 35^\circ$	CARBIDE	A (MM-INCH)	CONICAL	A (INCH - MM)	CARBIDE	DBLE CONE			
	48629	— 0,25							
	48630	— 0,32					.010"	0,25	48645
	48631	— 0,50					.013"	0,32	48646
	48632	— 0,75					.020"	0,50	48647
	48633	— 1,00					.030"	0,75	48648
	48634	— 1,25					.040"	1,00	48649
	48635	— 1,50					.050"	1,25	48650

Advice for use

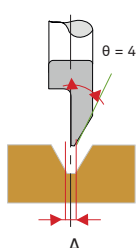
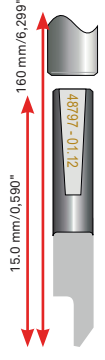
SPECIAL CONICAL

COMPATIBLE MATERIALS	1/4 ROUND
Gold/Silver	
Aluminium/Brass	☉
Steel/Stainless steel	■
☉ Absolutely suitable ■ Suitable	

Anodised aluminium: depth 1 division at adjustment tip
Steel and stainless steel:
 Rotation speed = 11,000 rpm (adjustment only possible on IS)

A higher speed would cause premature wearing in the truncation.
 $V_{xy} = 5\text{mm/s} / V_z = 3\text{mm/s}$

The use of a cutting lubrication oil is essential: **TARFIL™** blue ref: 19526

1/4 ROUND	A (INCH - MM)	CARBIDE	1/4 ROUND	
	.010"	0,25		
	.013"	0,32		48636
	.020"	0,50		48637
	.030"	0,75		48638
	.040"	1,00		48639
	.050"	1,25		48640
	.060"	1,50		48641
	.069"	1,75		48642
	.080"	2,00		48643
				48644



Compatible with: TXL, M40, IS200, IS400, IS900, IS6000/7000/8000

BEVELLING

$\theta = 15^\circ$ CARBIDE A (MM - INCH) SPECIAL A (INCH - MM) CARBIDE $\theta = 45^\circ$

48713 — 0,32 .013" $\theta = 15^\circ$ $\theta = 45^\circ$.013" 0,32 — 48925

SPECIAL

COMPATIBLE MATERIALS	$\theta = 15^\circ$	$\theta = 45^\circ$
Gravoply™, Metallex™ & Gravoglas™, Acrylic	■	■
Leathers and derived products	■	●
Phenolic	■	●
Gold/Silver	■	●
Aluminium/Brass	●	●
Steel/Stainless steel	●	●

● Absolutely suitable ■ Suitable

SCRIBING

$\theta = 120.0^\circ$ CARBIDE A (MM - INCH) DIAMOND A (INCH - MM) CARBIDE $\theta = 126.5^\circ$

23060 — 0,10 .004" 120.0° 126.5° .004" 0,10 — 23061

Rotating Non Rotating Designed for feather Touch Use

DIAMOND

COMPATIBLE MATERIALS	$\theta = 120.0^\circ$	$\theta = 126.5^\circ$
Gravoply™, Metallex™ & Gravoglas™, Acrylic	■	■
Gold/Silver	■	●
Aluminium/Brass	●	■
Steel/Stainless steel	■	■

● Absolutely suitable ■ Suitable

DRILLING AND CUTTING

DRILLING CARBIDE A (MM-INCH) CYLINDRICAL A (INCH - MM) CARBIDE MULTI-LIP

Part No.	Symbol	A (mm)	A (inch)
48661	•	0,50	.020"
48682	•	0,80	.030"
48683	•	1,00	.040"
48684	•	1,20	.047"
48685	•	1,40	.055"
48686	•	1,50	.060"
48687	•	2,00	.080"
48688	•	2,50	.100"

48651 — 1,00 .040" 48651 160 mm / 6.299" 15.0 mm / 0.590" 48652 — 2,00 .080" 48652

CYLINDRICAL

COMPATIBLE MATERIALS	DRILLING	MULTI-LIPS
Gravoply™, Metallex™ & Gravoglas™, Acrylic	●	■
Leathers and derived products	■	■
Phenolic / Epoxy	■	●
Gold/Silver	■	■
Aluminium/Brass	■	■
Steel/Stainless steel	■	■

● Absolutely suitable ■ Suitable

CUTTING

DOUBLE LIP CARBIDE A (MM-INCH) CYLINDRICAL A (INCH - MM) CARBIDE SINGLE LIP

Part No.	Symbol	A (mm)	A (inch)
48657	—	0,80	.030"
48658	—	1,00	.040"
48659	—	2,00	.080"
48660	—	3,00	.100"

48653 — 0,8 .030" 48653 160 mm / 6.299" 15.0 mm / 0.590" 48654 — 1,0 .040" 48654 48655 — 2,0 .080" 48655 48656 — 3,0 .100" 48656

CYLINDRICAL

COMPATIBLE MATERIALS	DOUBLE LIPS	SINGLE LIP
Gravoply™, Metallex™ & Gravoglas™, Acrylic	■	■
Gold/Silver	■	■
Aluminium/Brass	●	●

● Absolutely suitable ■ Suitable



MACHINING

COMPATIBLE MATERIALS SINGLE LIP

Gravoply™, Metallex™ & Gravoglas™, Acrylic



Leathers and derived products

Phenolic

Gold/Silver

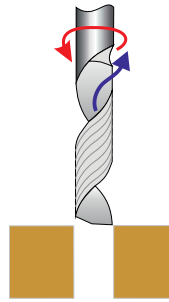
Aluminium/Brass



Steel/Stainless steel

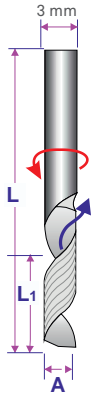
Absolutely suitable

Suitable



L	L ₁	A		
39,0 mm 1.535"	4,0 mm .160"	1,0 mm .040"		48736
39,0 mm 1.535"	8,0 mm .315"	2,0 mm .080"		48737
39,0 mm 1.535"	10,0 mm .40"	3,0 mm .120"		48738

CARBIDE



COMPATIBLE MATERIALS SINGLE LIP

Gravoply™, Metallex™ & Gravoglas™, Acrylic



Leathers and derived products

Phenolic

Gold/Silver

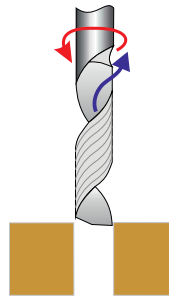
Aluminium/Brass



Steel/Stainless steel

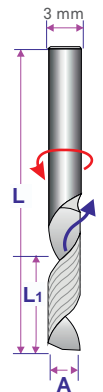
Absolutely suitable

Suitable



L	L ₁	A		
38,0 mm 1.496"	3,0 mm .120"	1,0 mm .040"		48739
38,0 mm 1.496"	5,0 mm .197"	2,0 mm .080"		48740
50,0 mm 1.968"	8,0 mm .315"	3,0 mm .120"		48741

CARBIDE



COMPATIBLE MATERIALS DOUBLE LIPS

Gravoply™, Metallex™ & Gravoglas™, Acrylic



Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

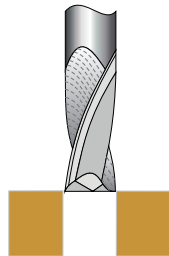


Steel/Stainless steel

Absolutely suitable

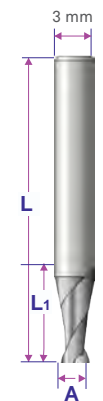
Suitable

80341



L	L ₁	A		
38,0 mm 1.496"	2,0 mm .080"	1,0 mm .040"		48752
38,0 mm 1.496"	3,0 mm .120"	1,5 mm .060"		48753
38,0 mm 1.496"	1,95 mm .077"	1,95 mm .077"		80341*
38,0 mm 1.496"	4,0 mm .160"	2,0 mm .080"		48755
38,0 mm 1.496"	5,0 mm .197"	2,5 mm .100"		48756
38,0 mm 1.496"	6,0 mm .236"	3,0 mm .120"		48769

DOUBLE LIP



* TiAlN coated - avoid lubricant for hard brass & copper

COMPATIBLE MATERIALS TRIPLE LIPS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Gold/Silver

Aluminium/Brass



Steel/Stainless steel

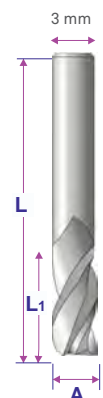
Absolutely suitable

Suitable



L	L ₁	A		
38,0 mm 1.496"	4,0 mm .160"	2,0 mm .080"		70611

CARBIDE



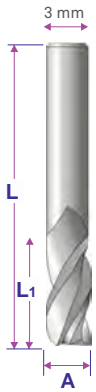
MACHINING

CARBIDE

A

L₁

L



23080 — 2,00 mm .080" — 6,00 mm .236" — 32,0 mm 1.260"



COMPATIBLE MATERIALS

TRIPLE LIPS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☑ Absolutely suitable

■ Suitable

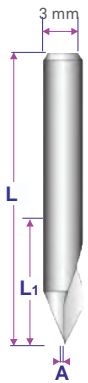
ENGRAVING

CARBIDE

A

L₁

L



23077 — 0,15 mm .005" — - — 32 mm 1.260"



COMPATIBLE MATERIALS

CONICAL HELICAL

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☑ Absolutely suitable

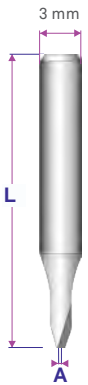
■ Suitable

CARBIDE

A

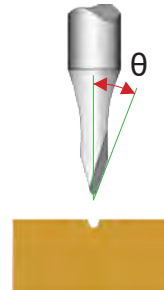
θ

L



70613 — 0,05 mm .002" — 50° — 38 mm 1.496"

70612 — 0,15 mm .005" — 50° — 38 mm 1.496"



COMPATIBLE MATERIALS

3/4 CONICAL

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☑ Absolutely suitable

■ Suitable

Advice for use

Cutting and engraving plastics

Parameters	V _{xy} (mm/s)	V _z (mm/s)	Conditions
Engraving	20 à 35	10 à 20	Chip collector (A)
Cutting	5 à 15	2 à 8	Chip collector (A)

Cutting and engraving brass

Parameters	V _{xy} (mm/s)	V _z (mm/s)	Conditions
Engraving	10 à 15	5 à 10	Chip collector (A)
Cutting	4 à 10	2 à 8	Chip collector (A)

Cutting and engraving aluminium

Parameters	V _{xy} (mm/s)	V _z (mm/s)	Conditions
Engraving	7 à 12	5 à 8	Lubrication : Surfex® Ref:30368 (B)
Cutting	2 à 5	1 à 5	Lubrication : Surfex® Ref:30368 (B)

Cutting and engraving steel and stainless steel

Parameters	V _{xy} (mm/s)	V _z (mm/s)	Conditions
Engraving	5 à 10	1 à 5	Lubrication : Tarfil™ Ref:19526 (C)
Cutting	1 à 3	1 à 2	Lubrication : Tarfil™ Ref:19526 (C)



A



B



C

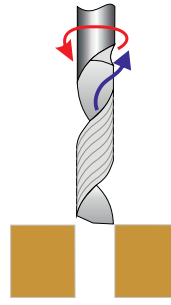


MACHINING

COMPATIBLE MATERIALS SINGLE LIP

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

Absolutely suitable Suitable

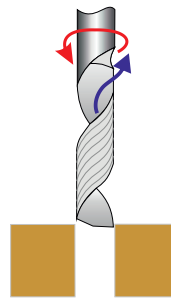


L	L ₁	A			SINGLE LIP
38,0 mm 1.496"	8,0 mm .315"	2,0 mm .080"		48742	
38,0 mm 1.496"	10,0 mm .40"	3,0 mm .120"		48743	
50,0 mm 1.968"	20,0 mm .80"	4,0 mm .160"		48744	

COMPATIBLE MATERIALS SINGLE LIP

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

Absolutely suitable Suitable

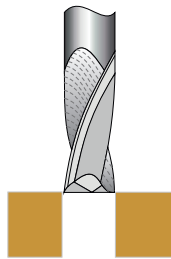


L	L ₁	A			SINGLE LIP
38,0 mm 1.496"	3,0 mm .120"	2,0 mm .080"		48745	
38,0 mm 1.496"	6,0 mm .236"	3,0 mm .120"		48746	
50,0 mm 1.968"	9,0 mm .354"	4,0 mm .160"		48747	
38,0 mm 1.496"	12,0 mm .472"	4,0 mm .160"		23086	

COMPATIBLE MATERIALS DOUBLE LIP

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

Absolutely suitable Suitable

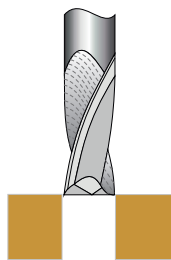


L	L ₁	A			DOUBLE LIP
38,0 mm 1.496"	4,0 mm .160"	2,0 mm .080"		48770	
38,0 mm 1.496"	14,0 mm .551"	3,0 mm .120"		48771	
50,0 mm 1.968"	16,0 mm .630"	4,0 mm .160"		23073	

COMPATIBLE MATERIALS DOUBLE LIP

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver

Absolutely suitable Suitable



L	L ₁	A			DOUBLE LIP
50,0 mm 1.968"	12,0 mm .472"	4,0 mm .160"		23072	



MACHINING

CARBIDE

A

L₁

L



23079	■	2,00 mm .080"	4,00 mm .160"	25,0 mm .984"
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COMPATIBLE MATERIALS

TRIPLE LIP

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☐ Absolutely suitable

■ Suitable

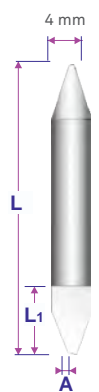
ENGRAVING

CARBIDE

A

L₁

L



48757	—	0,25 mm .010"		
48758	—	0,32 mm .013"		
48759	—	0,50 mm .020"	6,0 mm .236"	50,0 mm 1,968"
48760	—	0,75 mm .030"		
48761	—	1,25 mm .050"		



COMPATIBLE MATERIALS

CONICAL WITH DOUBLE RECESS

Gravoply™, Metallex™ & Gravoglas™, Acrylic

Leathers and derived products

Phenolic

Gold/Silver

Aluminium/Brass

Steel/Stainless steel

☐ Absolutely suitable

■ Suitable

Advice for use

Cutting and engraving plastics

Parameters	V xy (mm/s)	V Z (mm/s)	Conditions
Engraving	20 à 35	10 à 20	Chip collector (A)
Cutting	5 à 15	2 à 8	Chip collector (A)

Cutting and engraving brass

Parameters	V xy (mm/s)	V Z (mm/s)	Conditions
Engraving	10 à 15	5 à 10	Chip collector (A)
Cutting	4 à 10	2 à 8	Chip collector (A)

Cutting and engraving aluminium

Parameters	V xy (mm/s)	V Z (mm/s)	Conditions
Engraving	7 à 12	5 à 8	Lubrication : Surfex® Ref:30368 (B)
Cutting	2 à 5	1 à 5	Lubrication : Surfex® Ref:30368 (B)

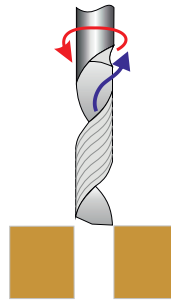
Cutting and engraving steel and stainless steel

Parameters	V xy (mm/s)	V Z (mm/s)	Conditions
Engraving	5 à 10	1 à 5	Lubrication : Tarfil™ Ref:19526 (C)
Cutting	1 à 3	1 à 2	Lubrication : Tarfil™ Ref:19526 (C)

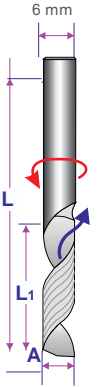


MACHINING

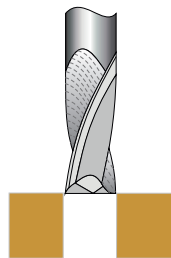
COMPATIBLE MATERIALS	SINGLE LIP
Gravoply™, Metallex™ & Gravoglas™, Acrylic	☉
Leathers and derived products	
Phenolic	
Gold/Silver	
Aluminium/Brass	■
Steel/Stainless steel	
☉ Absolutely suitable	■ Suitable



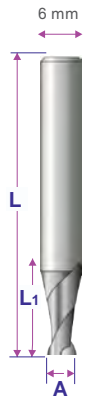
L	L ₁	A		
50,0 mm 1.968"	7,0 mm .275"	2,00 mm .080"	■	48748
50,0 mm 1.968"	10,0 mm .40"	3,00 mm .120"	■	48749
50,0 mm 1.968"	12,0 mm .472"	4,00 mm .160"	■	48750
50,0 mm 1.968"	15,0 mm .590"	6,00 mm .236"	■	48751



COMPATIBLE MATERIALS	DOUBLE LIPS
Gravoply™, Metallex™ & Gravoglas™, Acrylic	■
Leathers and derived products	
Phenolic	
Gold/Silver	
Aluminium/Brass	☉
Steel/Stainless steel	
☉ Absolutely suitable	■ Suitable



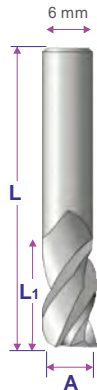
L	L ₁	A		
50,0 mm 1.968"	6,0 mm .236"	2,00 mm .080"	■	48772
50,0 mm 1.968"	6,0 mm .236"	3,00 mm .120"	■	70610
50,0 mm 1.968"	8,0 mm .315"	4,00 mm .160"	■	70614
50,0 mm 1.968"	16,0 mm .630"	6,00 mm .236"	■	70615



COMPATIBLE MATERIALS	TRIPLE LIPS
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Phenolic	
Gold/Silver	
Aluminium/Brass	☉
Steel/Stainless steel	
☉ Absolutely suitable	■ Suitable



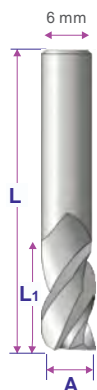
L	L ₁	A		
50,0 mm 1.968"	4,0 mm .160"	2,00 mm .080"	■	71765
50,0 mm 1.968"	6,0 mm .236"	3,00 mm .120"	■	71766
50,0 mm 1.968"	8,0 mm .315"	4,00 mm .160"	■	71767



COMPATIBLE MATERIALS	4 LIPS
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Gold/Silver	
Aluminium/Brass	
Steel/Stainless steel	☉
☉ Absolutely suitable	■ Suitable



L	L ₁	A		
50,0 mm 1.968"	4,0 mm .160"	2,00 mm .080"	■	71768
50,0 mm 1.968"	8,0 mm .315"	3,00 mm .120"	■	71769
50,0 mm 1.968"	11,0 mm .433"	4,00 mm .160"	■	71770



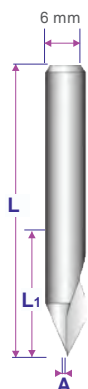
Tools covered with CUTINOX, facilitating the machining of hard metals



ENGRAVING

CARBIDE

A L L



23091 — 0,15 mm .005" — 57 mm 2.244"



CONICAL HELICAL

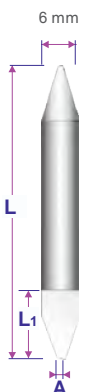
COMPATIBLE MATERIALS

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

-
-
-
-

CARBIDE

A L L



48762 — 0,32 mm .013"
 48763 — 0,50 mm .020" — 8,0 mm .315" — 57,0 mm 2.244"
 48765 — 1,25 mm .050"



CONICAL WITH DOUBLE RECESS

COMPATIBLE MATERIALS

- Gravoply™, Metallex™ & Gravoglas™, Acrylic
- Leathers and derived products
- Phenolic
- Gold/Silver
- Aluminium/Brass
- Steel/Stainless steel

-
-
-
-

Advice for use

Cutting and engraving plastics

Parameters	V xy (mm/s)	V z (mm/s)	Conditions
Engraving	20 à 35	10 à 20	Chip collector (A)
Cutting	5 à 15	2 à 8	Chip collector (A)

Cutting and engraving brass

Parameters	V xy (mm/s)	V z (mm/s)	Conditions
Engraving	10 à 15	5 à 10	Chip collector (A)
Cutting	4 à 10	2 à 8	Chip collector (A)

Cutting and engraving aluminium

Parameters	V xy (mm/s)	V z (mm/s)	Conditions
Engraving	7 à 12	5 à 8	Lubrication : Surfex® Ref:30368 (B)
Cutting	2 à 5	1 à 5	Lubrication : Surfex® Ref:30368 (B)

Cutting and engraving steel and stainless steel

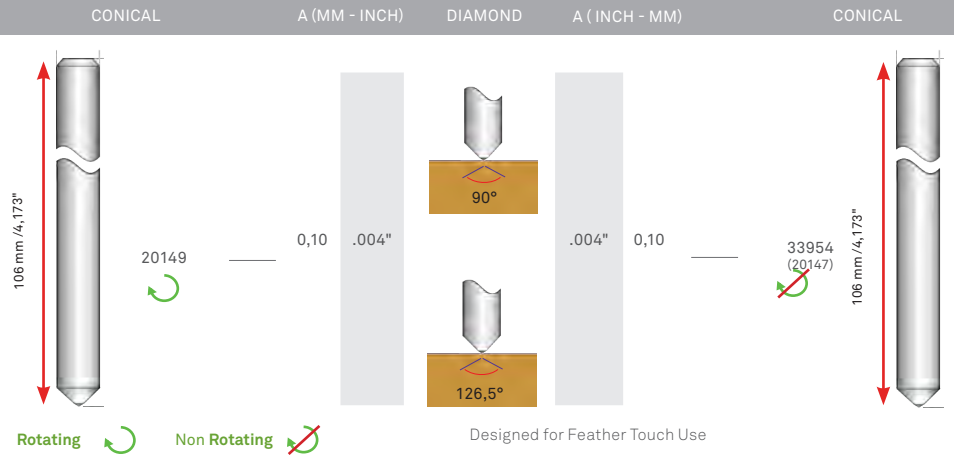
Parameters	V xy (mm/s)	V z (mm/s)	Conditions
Engraving	5 à 10	1 à 5	Lubrication : Tarfil™ Ref:19526 (C)
Cutting	1 à 3	1 à 2	Lubrication : Tarfil™ Ref:19526 (C)



ONECUT 3.17 mm

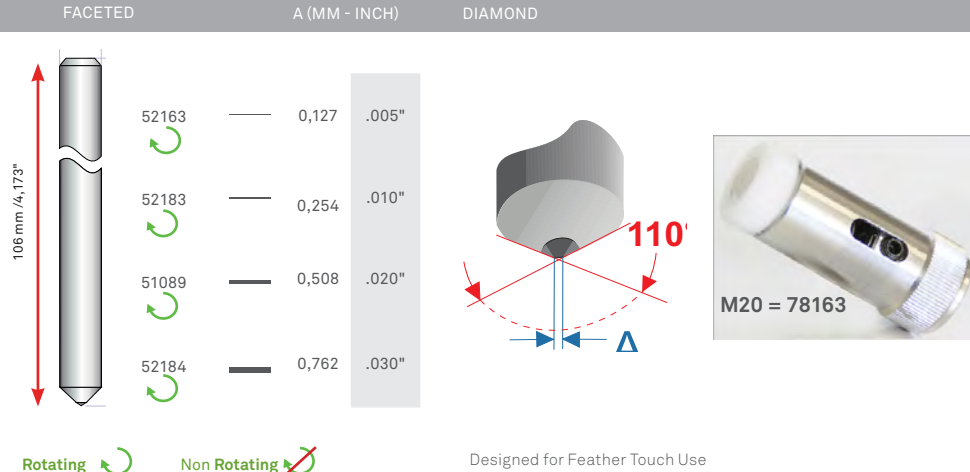
SCRIBING DIAMOND

COMPATIBLE MATERIALS	ROTATING	NON ROTATING
Gravoply™, Metallex™ & Gravoglas™, Acrylic		
Leathers and derived products		
Glass & Mirrors	⊙	▪
Gold/Silver	▪	⊙
Aluminium/Brass	▪	▪
Steel/Stainless steel	▪	
	⊙ Absolutely suitable	▪ Suitable



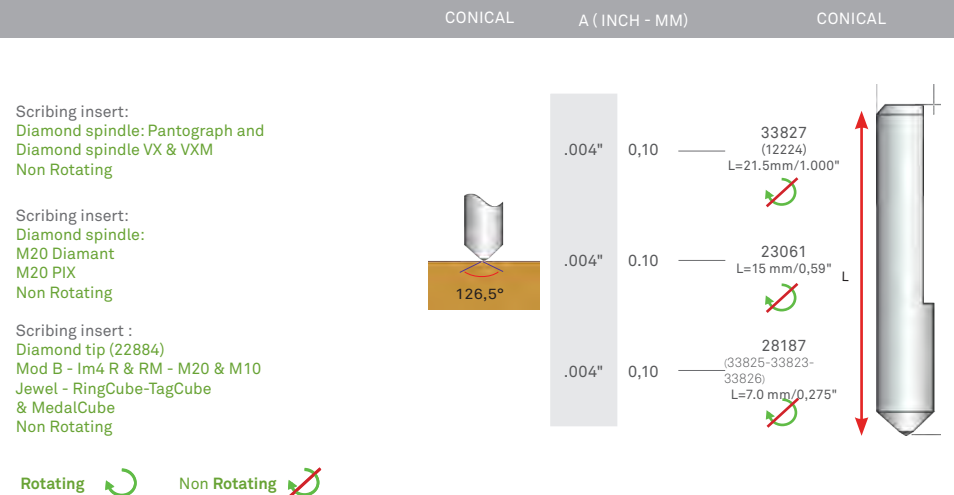
FACETED DIAMOND

COMPATIBLE MATERIALS	FACETED DIAMOND
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Glass & Mirrors	⊙
Gold/Silver	▪
Aluminium/Brass	▪
Steel/Stainless steel	
	⊙ Absolutely suitable
	▪ Suitable



DIAMOND INSERT

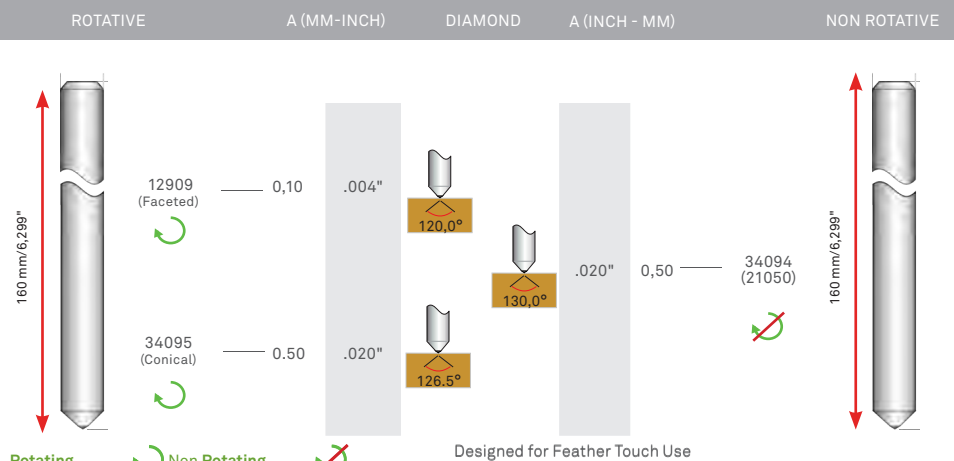
COMPATIBLE MATERIALS	INSERTS-DIAMOND
Gravoply™, Metallex™ & Gravoglas™, Acrylic	
Leathers and derived products	
Glass & Mirrors	▪
Gold/Silver	⊙
Aluminium/Brass	▪
Steel/Stainless steel	▪
	⊙ Absolutely suitable
	▪ Suitable



ONECUT 4.36 mm

CONICAL & FACETED DIAMOND

COMPATIBLE MATERIALS	ROTATING DIAMOND	NON ROTATING DIAMOND
Glass & Mirror	⊙	▪
Aluminium/Brass	▪	⊙
Gold/Silver	▪	▪
Steel/Stainless steel		⊙
	⊙ Absolutely suitable	▪ Suitable

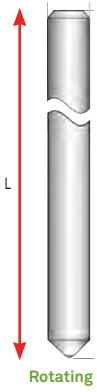


ONECUT 4.36 mm

FACETED DIAMOND

A (MM - INCH)

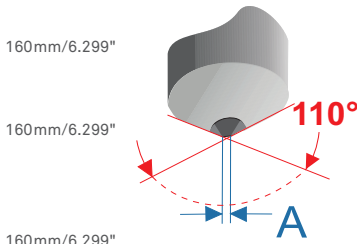
CONICAL



- 77659
- 34122
- 34123
- 34124

A (MM)	A (INCH)	CONICAL
0,25	.010"	130mm/5.118"
0,25	.010"	160mm/6.299"
0,38	.015"	160mm/6.299"
0,76	.030"	160mm/6.299"

L



Designed for Feather Touch Use



FACETED DIAMOND

COMPATIBLE MATERIALS	FACETED DIAMOND
Plastics	
Leathers and derived products	
Glass & Mirror	<input checked="" type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/>
Gold/Silver	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>
<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable

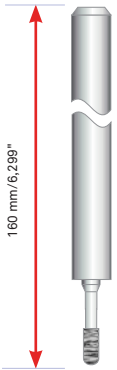
BALL DIAMOND

A (MM - INCH)

SPECIAL DIAMOND

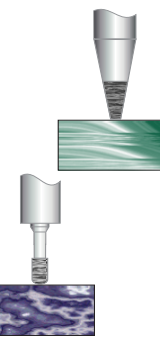
A (MM - INCH)

CONICAL DIAMOND



- 20932
- 20933

A (MM)	A (INCH)	SPECIAL DIAMOND
1,60	.063"	



A (MM)	A (INCH)	CONICAL DIAMOND
0,75	.030"	34119 (27044)
1,50	.060"	34120
2,30	0.09"	34121



Designed for Feather Touch Use

SPECIAL

COMPATIBLE MATERIALS	DIAMOND BALL	DIAMOND CONICAL
Plastics		
Leathers and derived products		
Phenolic		
Steel/Stainless steel		
Glass & Mirrors	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Granite	<input checked="" type="checkbox"/>	
<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable	

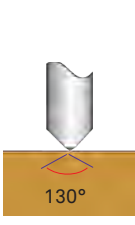
ONECUT 6.35 mm

SCRIBING DIAMOND

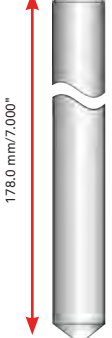
A (INCH - MM)

DIAMOND

Scribing diamond
Non Rotative
 Engraving on ferrous metal and non ferrous metal.
 Pantograph IR & IRV
 CN machines using a 6.35mm collet spindle.



A (INCH)	A (MM)	DIAMOND
.004"	0,10	34261 (11890)



SCRIBING DIAMOND

COMPATIBLE MATERIALS	DIAMOND
Glass & Mirrors	
Gold/Silver	<input type="checkbox"/>
Aluminium/Brass	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>
<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable

TWINCUT

θ = 120°

DIAMOND

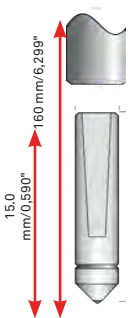
A (MM - INCH)

CONICAL

A (INCH - MM)

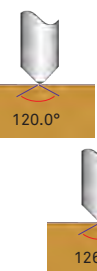
DIAMOND

θ = 126.5°

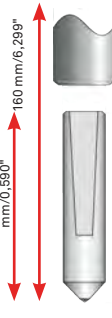


- 23060

A (MM)	A (INCH)	CONICAL
0,10	.004"	



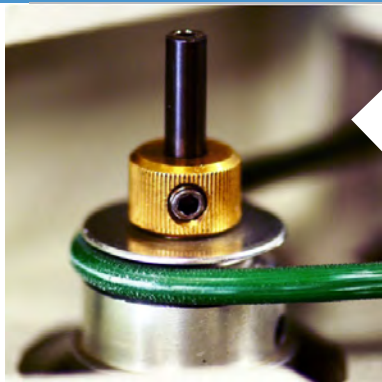
A (MM)	A (INCH)	DIAMOND
0,10	.004"	23061



DIAMOND

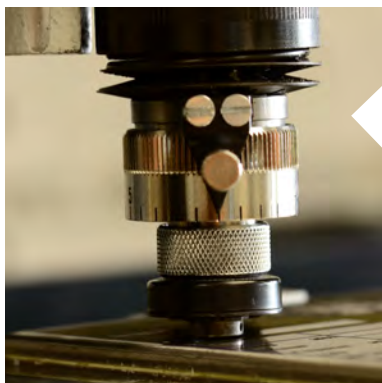
COMPATIBLE MATERIALS	θ = 120.0°	θ = 126.5°
Gravoglyp™, Metallex™ & Gravoglas™, Acrylic		
Gold/Silver	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Aluminium/Brass	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Steel/Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Absolutely suitable	<input type="checkbox"/> Suitable	









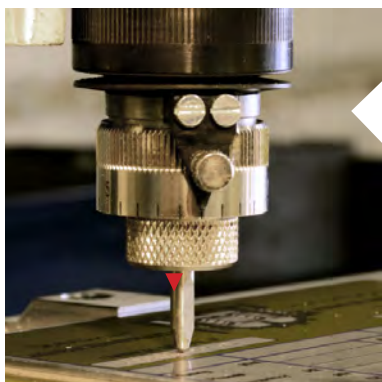
Before starting adjustment of your tools

1. Set the depth micrometer to position 0
2. Fit a cutter knob into the spindle. The screw thread is reversed.






Step-by-step engraving cutter adjustment for engraving plastics

1. Move the spindle into position above the plate to be engraved, using the X and Y arrows on the remote control 
2. Press the remote control button  (Z = 0.00 is displayed on the LCD screen)
Then lower the spindle by pressing and holding the button  until the adjustment tip touches the material to be engraved
3. Insert the engraving cutter into the button cutter knob. Lower it gently until the truncation touches the material to be engraved. Set the adjustment by tightening the cutter knob screw
4. Press the remote control button  to save the adjustment; the spindle then rises into position
5. Rotate the micrometer upwards to display the engraving depth (1 division = 0.025 mm - depth example: Gravoply 1 = 12 division)



Step-by-step diamond adjustment for engraving metals

Note: the regulator nose is not used for diamond engraving.

1. Remove the tool fitted to the spindle
2. Press the remote control button  and lower the bottom of the spindle  to within 8 mm to 12 mm of the metal plate to be engraved
3. Insert the diamond into the button cutter knob (previously fitted to the spindle) and lower it gently until it touches the metal material. Set the adjustment by tightening the cutter knob screw
4. Press the remote control button to save the adjustment 
5. The depth should be entered on the Gravostyle engraving screen.

How to choose the truncation width of an engraving cutter?

	0.4 mm 1/64"	0.8 mm 1/32"	1.5 mm 1/16"	3.0 mm 1/8"	6 mm 1/4"	8.0 mm 5/16"	12.0 mm 1/2"	19.0 mm 3/4"	25.0 mm 1"	32.0 mm 1 1/4"	50 mm 2"
1 Height of characters to be engraved											
The cutter tip width is directly related to the height of the engraved characters. To use this guide most effectively, define the cutter tip width according to:											
1 - the height of the engraved characters											
2 - the type of characters used (single or multi-line)											
2 Tool width											
Single-line characters	0.127 mm .005"	0.25 mm .010"	0.38 mm .015"	0.50 mm .020"	0.76 mm .030"	1.0 mm .040"	1.52 mm .060"	2.28 mm .060"	3.17 mm .125"	4.34 mm .171"	6.35 mm .250"
Multi-line characters	0.127 mm .005"	0.127 mm .005"	0.25 mm .010"	0.25 mm .010"	0.38 mm .015"	0.38 mm .015"	0.76 mm .030"	1.02 mm .040"	1.52 mm .060"	1.52 mm .060"	2.30 mm .090"

Example : Height of characters to be engraved with multi-line characters : 12 mm => tool width = 0.75 mm

ACCESSORIES: TOOLS AND GRINDING EQUIPMENT

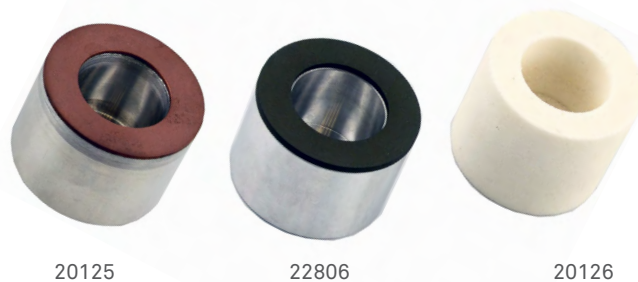


	Onecut	Twincut	IS machine	M40
A. Cutter knob key	■	■	10016	
B. Steel block		■	13798	
C. Starter kit		■	69722	69723
D. Cutter knob	■	■	12335	Button integrated into the spindle
E. Tool holder		■	22987	69729
F. Brush	■	■	11791	
G. Ejector		■	69724	69727

GRINDING EQUIPMENT




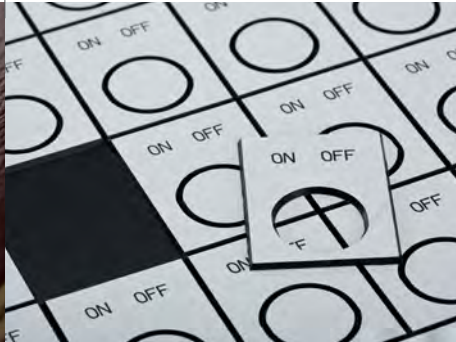

20125	Diamond grinding wheel D46 for Carbide cutters
20126	Corundum grinding wheel for Steel cutters
22806	Diamond grinding wheel D16 for finishing Carbide cutters
20890	CG30 collet - Ø = 3.17 mm (1/8")
20891	CG30 collet - Ø = 4.36 mm (11/64")
20892	CG30 collet - Ø = 6.35 mm (1/4")



GRAVOSTYLE™

The unique software for laser and rotary engraving machines



	Explorer Rotary	Discovery Laser + Rotary	DiscoveryMax Laser + Rotary
	Essential lettering capabilities	Go hybrid. Drive laser & rotary technology	Productivity package
			
Levels	<p>Features</p> <ul style="list-style-type: none"> • Import of vector files (DXF, EPS, HPGL etc.) and images (BMP, JPG, PNG and TIF etc.) • Plate Point & Shoot: makes it possible to define the engraving area directly on the machine • Standard text functions • Automatic centring function and centring texts on their plate • Pre-routed engraving fonts • Extensive choice of symbols • Intuitive management of toolpaths by colour with advice on the choice of tools • On-screen preview 	<ul style="list-style-type: none"> • Matrix & variable lists • Layer management • PDF import & files export (PDF, DXF, EPS, HPGL...) • Alignment & transformation tools • Geometric shapes • Laser driving capabilities with presets • Calibration wizard: one-step process to establish optimal laser settings 	<ul style="list-style-type: none"> • Scanning & vectorisation • Point mode & bitmap editor • 2D recess by colour • Retail font pack (incl. over 100 fonts) • Scripting (macro function capabilities)
	<p>Options</p> <p>Personalisation pack:</p> <ul style="list-style-type: none"> • Handwriting stroked engraving fonts • Photo processing capabilities • Additional stroked engraving fonts 	<ul style="list-style-type: none"> • Braille production • Font editor 	<ul style="list-style-type: none"> • Text on a curve
	<p>Applications</p> <ul style="list-style-type: none"> • Badges, nameplates & doorplates • Photo touch-ups • Jewellery & gifts • Pens • Pet tags & key rings • Legend plates • Valve & push button tags 	<ul style="list-style-type: none"> • Plate serialisation • Variable list of names • Small signage • Funeral plates • Rubber stamps 	<ul style="list-style-type: none"> • Logo scanning & editing • Trophy plates • Plates with text & logos • Signage with text & logos

In all levels

<p>Features</p> <ul style="list-style-type: none"> • Point & Shoot to check engraving position • Help features & wizards (step by step guided functions) • Engraving parameters saved with job • Automatic text composition mode 	<ul style="list-style-type: none"> • Computip feature to recommend the most efficient tools • Support for Automatic Plate Feeding applications • Support for cylindrical engraving • Customisation of working environment 	<ul style="list-style-type: none"> • Post-it function to take notes while you engrave • Hot keys • Favourites toolbar • Object freezing
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GravoStyle™, available in multiple levels of functionality provides features and special functionalities meeting specific market needs for engraving, cutting, marking, ablating and annealing processes for CNC rotary and CO₂, YVO4 and fiber laser technologies. Specialised functionalities include:

- Dials, scales, matrix and serialisation labeling for the industrial market;
- Letter cutting and Braille for the signage market;
- Photo engraving, handwritten dedication and decorative plaques thanks to the personalisation pack.


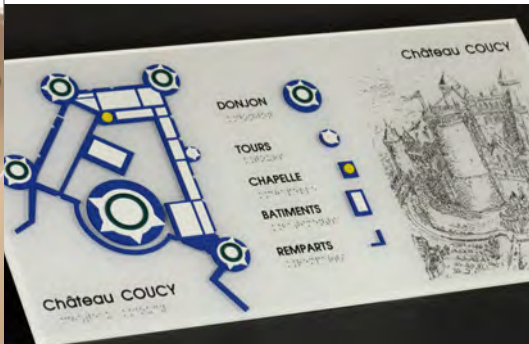

There are many more such functions for the engraver and endless possibilities for their use. Use the software today and experience the depth and breadth of its capabilities.

GravoStyle™ is designed to work together with your current 3rd-party design software while providing powerful engraving-specific features.

Engraving made easy. GravoStyle™'s new features include a Dynamic Helpdesk Assistant (DHA) with video directly in the software engraving window. In addition, an online Engraving Database of Parameters (EDP) provides the optimal laser process settings for the full range of Gravograph laser consumables.

RUN WITH



<h3>Industry</h3> <p>Laser + Rotary</p>	<h3>Graphic</h3> <p>Laser + Rotary</p>	<h3>3D</h3> <p>Laser + Rotary</p>
<p>Power, precision & productivity</p>	<p>Unleash your creativity</p>	<p>Take your engraving to a new dimension</p>
		
<ul style="list-style-type: none"> • Dials & scales • Scripting (macro function capabilities) • Long Plate management • Measurement tools • Batch import • External data import (CSV, TXT, Excel®, SQL, ODBC...) • Shape duplication tools 	<ul style="list-style-type: none"> • Nesting (material optimisation) • CAM module (advanced tool management) • Powerful on-screen simulation & rendering • Advanced Braille toolpath management • Print & Cut module • LED positioning function • Photo lasering optimisation function • Moulds and dies • Shading (3D effect) 	<ul style="list-style-type: none"> • Surface creation & manipulation tools • StylArt 3D modeling module • 3D texturing • Sculpture tool • 3D CAM advanced toolpaths • 3D visualisation tools • Includes all 2.5D functions
<ul style="list-style-type: none"> • Barcodes, Datamatrix, QR Code® and UID - unique identification with variables management 	<ul style="list-style-type: none"> • 2.5D toolpath for jewellery/metal stamps & intaglio for signage • Laser toolpath management for deep marking 	
<ul style="list-style-type: none"> • Rating plates • Control panels • Part identification & traceability • Circuit boards • Linear & 2D barcodes • Paper & cardboard cutouts with laser 	<ul style="list-style-type: none"> • Advanced photo lasering • Model making • Marquetry • Hot stamping • Award design & production • Printed signage cutout • Signs conception 	<ul style="list-style-type: none"> • 3D signage • Displays • Embossing/debossing dies • Food molds • Furniture decoration • Models & prototypes • Award & recognition • Commemorative

Laser technologies

Gantry

LS100

Compact & affordable



LS100EX

Extended capacities



Dimensions - LxWxH (mm)	775 x 725 x 450 (30.51" x 28.54" x 17.72")	1025 x 725 x 450 (40.35" x 28.54" x 17.72")
Lasering area (mm)	460 x 305 (18" x 12")	610 x 305 (24" x 12")
Z axis (mm)	145 (5.7")	145 (5.7")
CO2 ENERGY (W)	25	25
Sealed CO2 (W)	40 - 60	40 - 60
Fiber (W)	-	20 - 30
Edge	-	-
Standard features	Point & Shoot - Full Table autofocus - Electrical Z - Embedded dashboard - Manual Print & Cut - Laserstyle software - Direct driver - integrated exhaust compatible	
Options	Honey Comb cutting table - Cylindrical attachment - range of focal optics - Exhaust devices	
poinds net (Kg)	43	70

Accessories

Range of integrated exhaust devices

Designed specifically for Gravograph systems, these exhaust units are essential lasering accessories. They enable the marking, engraving and cutting of fume generating material such as rubber, acrylic or wood within a safe and pleasant working environment. Compact - 3 stage filtration - Single point connection - Moveable, on castor wheels - Synchronised on/off with laser.



	LE120HP / LE140HP	LE150HP	LN1900	LE190HP	ES10	ES30
Max. air flow (m³/h)	400	400	240	700	200	360
Static pressure (kPa)	10	10	22	10	4	9
Active carbon (L)	20	40	42	40	13	30
Compatible	LS100	LS100Ex	LS900	LS1000 ^{HP}	with full range	

APF Laser

With a capacity of up to 195 plates, the APF is an essential accessory for high volume lasering of rating plates, tags, ID plates or labels. APF: compatible with LS100, and LS100EX. No external air compressor required.



Applications

Signage

Rubber Stamps, Nameplates, Badges, Directories, Synoptic, Safety, Signs, Location & Directional, Fabricated Elements, DDA Braille Profiling, Inlay Cutting...



Personalisation

Pet Tags, Glassware, Tableware, Pens, Paper Goods, Gifts & Corporate, Gifts, Photos, Jewellery, Guns, Recognition & Awards, Sport and Trophies, Cup, Fabric, Leather...



LS900 - LS900^{XP}

Heavy duty



1080 x 630 x 810 (42.52" x 37.2" x 31.89")

610 x 610 (24" x 24")

250 (9.84")

25

40 - 60 - 80

20 - 30 - 50

40W CO2 + 20F / 30F / 50F

Point & Shoot - Full Table autofocus - Electrical Z - Embedded dashboard - Manual Print & Cut - Laserstyle software - Direct driver - integrated exhaust compatible

Honey Comb cutting table - Cylindrical attachment - range of focal optics - Exhaust devices

180

LS1000^{XP}

High productivity



1080 x 945 x 810 (42.52" x 37.2" x 31.89")

1220 x 610 (48" x 24")

300 (11.81")

-

60 - 80 - 100 - 150

-

-

230

Range of accessories for maximum productivity

Floating Pin Cutting Table

- Virtually eliminates back-flash effect
- Quick and easy setup
- Relocatable pins
- Suitable for all gantry lasers

Fixing

- Gravogrip mat

Honeycomb Cutting Table

- Stainless steel frame
- Excellent rigidity and durability
- Graduated alignment rulers for fast and accurate item positioning
- Minimises back-flash effect
- Easily inserted & removed from laser
- Covers the whole of the lasering area
- Available for LS100-LS100EX-LS900-LS900XP lasers

Cylindrical attachments

- Plug & Play installation
- Tilt mechanism allows lasering of conical shaped items
- 130 mm maximum diameter (LS100-LS100EX)
- 200 mm maximum diameter (LS900-LS900XP-LS1000XP)
- Supplied with five plastic cones of assorted sizes
- Optional concentric chuck
- Cone holding system allows lasering repeatability

Focal lenses

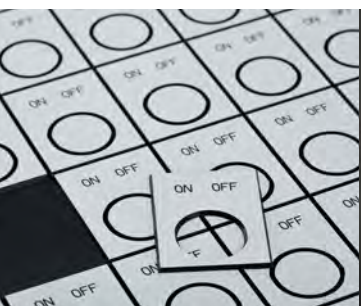
- A wide range of lenses for specialist applications such as precision lasering, thick material cutting or increased Z clearance.
- Available lenses: 1.5" - 2.0" - 2.5" - 4.0"

See our complete range of laser accessories >



Identification - Cutting and engraving

Direct Part Marking, Barcodes, UID, Electrical Plates, Modeling, Prototyping, POP Displays, Front Panel, ID & Asset Management Plates, Packaging...



M series

mioJEWEL

Compact, quiet and portable. For inside and outside engraving of rings and bangles. Footprint smaller than A4 size!



m20 series

An affordable engraving system that is convenient, easy-to-operate.

- M20 - Flat items engraver.
- M20 PIX - Photo engraver - personalisation equipment for picture and text engraving.
- M20 PEN: engraving of pens and flat items.
- M20 Artfoil: hot foil transfer of text and logos.
- M20 JEWEL - to engrave on rings (inside and outside), medals, chain bracelets.



Dimensions - LxWxH (mm)

230 x 293 x 290 (9" x 11.5" x 11.5")

340 x 310 x 310 (13.5" x 12" x 12")

Engraving area (mm)

From Ø6 to 80

100 x 100 (3" x 3")

Z stroke (mm)

-

30 (1.18")

Net weight (kg)

6.5

10

100 series

IS200 series

IS200, for personalising small objects, badges and plaques.



IQ+

IS200

IS400 series

A flexible professional engraving machine for trophies and plaques, small signage, identification of industrial parts and light machining.



IQ+

IS400

Dimensions - LxWxH (mm)

500 x 455 x 295 (20" x 18" x 12")

435 x 610 x 893 (17" x 24" x 35")

Engraving area (mm)

80 x 225 (3" x 9")

305 x 210 (12" x 8")

Z stroke (mm)

15 (0.59")

40 (1.57")

Net weight (kg)

20

42

1000 series

IS6000

Three heavy-weight computerised engraving machines for cutting or machining. The XP engraving systems are fast, accurate, and powerful.



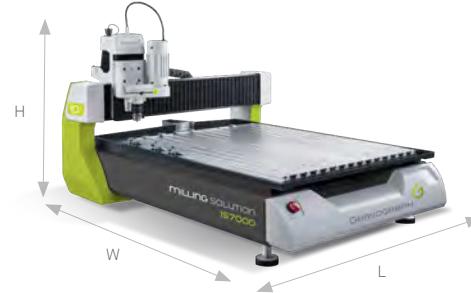
IS6000

IQ+

IS6000XP

XP

IS7000



IS7000

IQ+

IS7000XP

XP

Dimensions - LxWxH (mm)

1093 x 1015 x 735 (43" x 40" x 29")

1093 x 1015 x 735 (43" x 40" x 29")

1093 x 1420 x 735 (43" x 56" x 29")

1093 x 1420 x 735 (43" x 56" x 29")

Engraving area (mm)

610 x 410 (24" x 16")

610 x 410 (24" x 16")

610 x 815 (24" x 32")

610 x 815 (24" x 32")

Z stroke (mm)

80 (3.15")

80 (3.15")

80 (3.15")

80 (3.15")

Net weight (kg)

168

180

220

230

m40 series

An affordably-priced engraving system that's fast and quiet for engraving functional and technical signage.
 M40 Deep Vice - Plates and bulky items engraving
 M40 GIFT - M40 with tooling for cylindrical parts and glass engraving. Ideal for the retail trade and gift shops.



M40Deep Vice / ArtFoil	M40Gift
550 x 615 x 425 (22" x 20" x 17")	750 x 540 x 570 (29.5" x 22" x 22.5")
305 x 210 (12" x 8")	305 x 210 (12" x 8")
40 (1.57")	40 (1.57")
20	35

IS400 Volume

The future of engraving today, unique on the market.
 Easy marking on a curved surface thanks to the innovative iQ+ Terrain Follower.



iQ+

900 x 615 x 840 (35.5" x 24" x 33")
305 x 210 (12" x 8")
40 (1.57")
90

IS8000

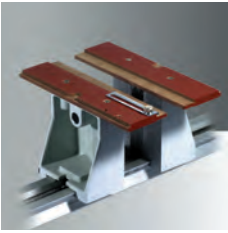


IS8000 iQ+	IS8000XP XP
1093 x 1825 x 735 (43" x 72" x 29")	1093 x 1825 x 735 (43" x 72" x 29")
610 x 1220 (24" x 48")	610 x 1220 (24" x 48")
80 (3.15")	80 (3.15")
265	280



Gravograph provides an extremely wide selection of jigs and holding devices, developed for and with customers.

For flat engraving



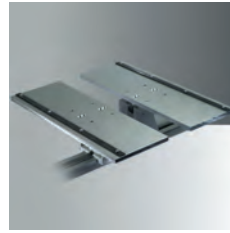
Standard celeron jigs
150 mm (5.9")
Ref. 10165



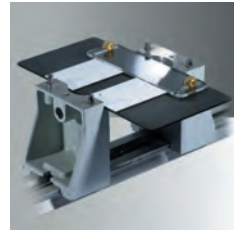
Aluminium jigs
150 mm (5.9")
Ref. 20189



Aluminium jigs
240 mm (9.5")
Ref. 21131



Large plate, aluminium
jigs
310 x 110 mm
(12" x 4")
Ref. 20191



Gravofoil™ vice
Ref. 22868



Gravogrip™
Several sizes available.
Please contact us for
more details. See p.15.

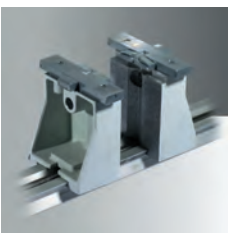


Support table +
Gravogrip™
Ref. 70997 for M20/
M20XL



Support table + Gravogrip™
Ref. 71116 for IS200
Ref. 45697 for M40

For jewellery items



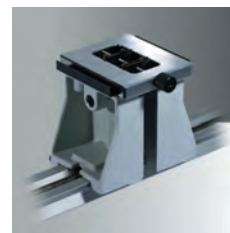
Jigs for jewellery,
bracelets and medals
Ref. 28192



Watch/medal jigs
fits any shape
Ref. 10182



Signet ring jigs
with protection pad
Ref. 20194



Perfect for baby identity
bracelets
Ref. 22870



Jigs for rigid bangles
Ref. 51729



Jig for ring with large
stone
Ref. 30050



Jigs for wedding rings
Réf. 12500



Jigs for bracelets
Réf. 77961



Jigs for bracelets and
pendants
Réf. 77320

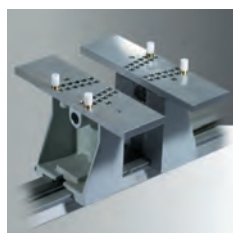
For gifts and tableware



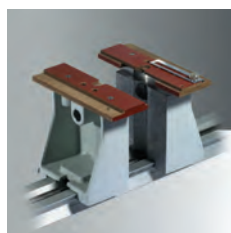
Spectacle bow jigs
adjustable width
Ref. 20190



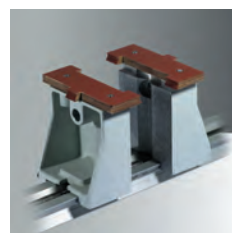
Cutlery jigs
with adjustable stops
Ref. 20129



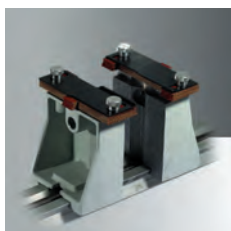
Cutlery jigs
with relocatable pins
Ref. 22370



Celeron badge jigs
103 x 36 mm
(4" x 1.4")
Ref. 20128



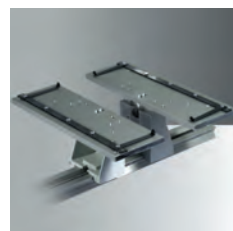
Pen & tubular object jigs
Ref. 10169



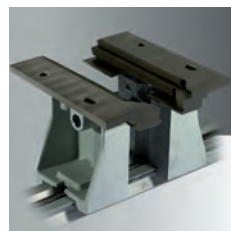
Clip pen jigs
Ref. 20842



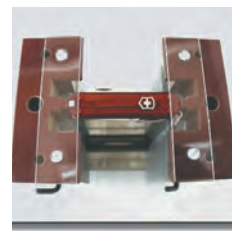
Multigrip jigs with
sliding pins & stops
Ref. 20196



Large plate/salver jigs
with relocatable pins
Ref. 20192



Cell phone jigs
Ref. 49510

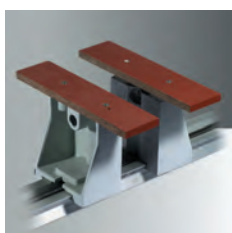


Swiss army knife jigs
Ref. 28067

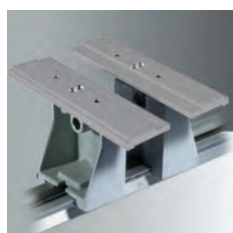
Specific applications



Circuit board jigs
with locating pins
Ref. 16638



Celeron unmachined
jigs
152 x 38 mm
(6" x 1.5")
Ref. 10179



Funeral plate jigs for M20
164 x 50 mm
(6.5" x 2")
Ref. 47697

Depth noses are essential to ensure perfect and constant engraving depth. Gravograph offers a wide variety of noses.

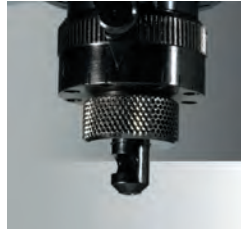
Depth noses



Steel nose
Ø 0.7 mm (.03")
Ref. 20130



Steel nose
Ø 1.5 mm (.06")
Ref. 20131



Steel nose
Ø 2.4 mm (.09")
Ref. 21755



Steel nose
Ø 2.5 mm (.1")
Ref. 20132



Teflon nose
Ø 3 mm (.12")
Ref. 20133



Steel nose
Ø 4.6 mm (.18")
Ref. 21086



Steel nose
Ø 16 mm (.63")
Ref. 20960

Vacuum noses



Ø 1.5 mm (.06")
Ref. 21674



Ø 3.3 mm (.13")
Ref. 21672



Ø 8 mm (.3")
Ref. 21673

Vacuum swivel noses



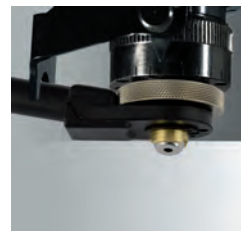
Steel swivel nose
Ø 2.5 mm (.1")
Ref. 22464



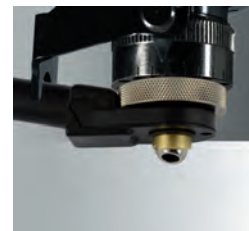
Teflon swivel nose
Ø 3.5 mm (.14")
Ref. 22481



Steel swivel nose
Ø 5 mm (.2")
Ref. 13058

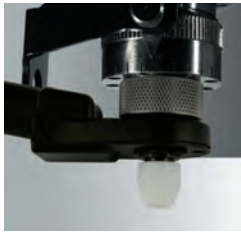


Swivel vacuum nose for
collet spindle
Ø 2.5 mm (.1")
Ref. 64189

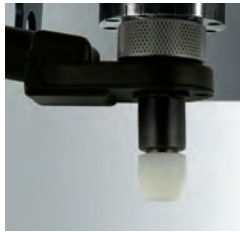


Swivel vacuum nose for
collet spindle
Ø 5 mm (.2")
Ref. 64188

Long vacuum teflon noses



Ø 2.5 mm (.1")
Length 12 mm (.48")
Ref. 28061



Ø 2.5 mm (.1")
Length 22 mm (.87")
Ref. 28062



Ø 2.5 mm (.1")
Length 27 mm (1.06")
Ref. 28063

Specifics



Fixed diamond nose
Ref. 22884



Prismatic swivel nose
Ref. 22885



Feather touch
Ref. M20 : 78163
Ref. M40 : 78164
Ref. IS : 78165

Steel noses:

The most commonly used noses (resistant and highly polished for minimum plate scratching).

Teflon noses:

For engraving on easily scratched materials, such as metal.

Swivel noses:

For engraving on curved surfaces (steel or teflon).

Prismatic noses:

For engraving on jewellery items such as ID bracelets or bangles.

Vacuum noses:

Same as steel nose, can be linked to a swarf extractor.

Diamond noses:

Provides better rigidity & accuracy than a non-rotating diamond cutter - mainly used for photo engraving and jewellery.

Feather touch :

This specific cutter button replace the standard cutter button. Feather touch is equipped with a spring, allowing an homogeneous result, and an object surface following during diamond non-planar engraving. Feather touch allow to reduce engraving pressure for a feathery engraving result.

Spindles



High-speed spindle
150W



High-speed spindle
750W



High-speed spindle
1000W

	150W	750W	1000W
IS400	Option	N/A	N/A
IS 6-7-8000 IQ	Option	Option	Option
IS 6-7-8000 XP	Option	Option	Option
IS 6-7-8000 XP MILLING	N/A	N/A	Standard
max rotation speed	60k rpm	24k rpm	60k rpm
Compatibilities	Regulating nose	High torque	Pneumatic clamp

Chips collector



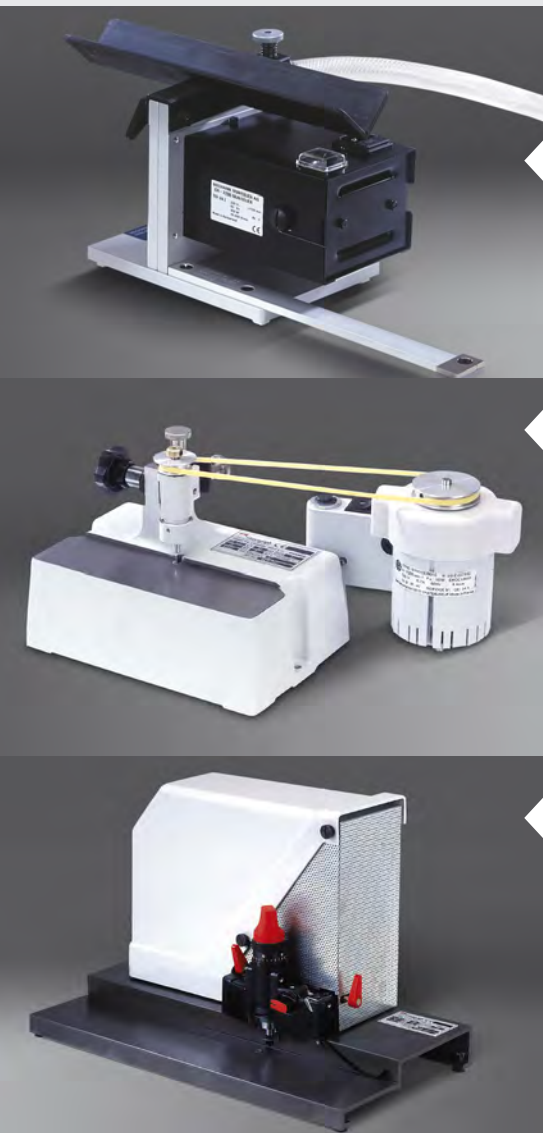
Compact chip collector

A must-have accessory that keeps the machine clean and the job easier to engrave. Helps keep the workplace tidy.

	Compact chip collector	IS machines chip collector
Size - LxWxH (mm)	155 x 100 x 180 (6" x 4" x 7")	290 x 290 x 540 (11.4" x 11.4" x 21")
Weight (kg)	1.3	23
Max. air flow (m³/h)	20	25
Max. static pressure (kPa)	2.2	7.3
Compatible with	M20 - M40 - IS200	100 Series - 1000 Series

IS machines chip collector

Bevelling machines



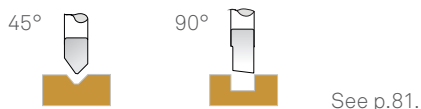
Bevelled (or "rounded") edges make plates and badges look much smarter, providing the finishing touch customers are looking for.

VA2

Only one bevelling angle (45°), but able to tackle material up to 6 mm (.236") thick + with integrated swarf extractor.

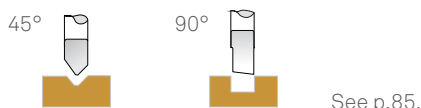
B4

The most basic version of the three machines, able to bevel up to 1.6 mm (1/16") thick material at either 45° or 90°. No swarf extractor.
Size: 310 x 160 x 120 mm (12.2" x 6.3" x 4.7").



B6

Up to 3.2 mm (1/8") material thickness, integrated swarf extractor, 45° and 90° angles, adjustable in depth and height and supplied with a set of accessories for cutting rounded corners. The professional engraver's choice.
Size: 500 x 340 x 300 mm (19.7" x 13.4" x 11.8").



Saws



VA10 / VA11

Different versions of the safety saws are available, depending mainly on the material size and thickness customers want to cut. These saws are able to cut most materials (i.e. plastic, acrylic, brass, aluminium, etc).

	VA10	VA11	VA21/15
Size - LxWxH (mm)	830 x 550 x 250 (33" x 22" x 10")	910 x 550 x 250 (36" x 22" x 10")	1280 x 551 x 250 (51" x 22" x 10")
Max. cutting length (mm)	620 (24")	665 (26")	1030 (40")
Max. material thickness (mm)	Plastics	6.3 (.248")	7 (.276")
	Gravoxal™ / Gravobrass™	4 (1/6")	5 (.20")
	Gravostrat™	6.3 (.248")	7 (.276")
	Aluminium profiles	-	15 (.59")
Vacuum extractor	Yes	Yes	Yes

VA21/15

Guillotines

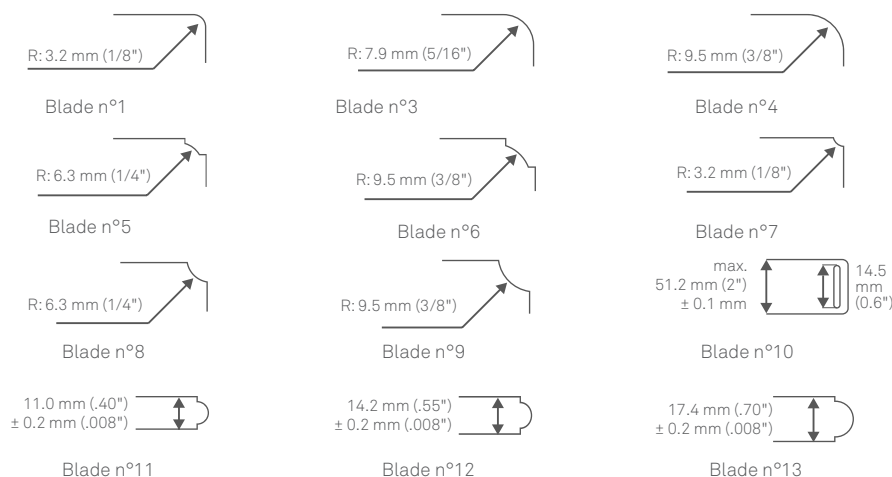


Whereas saws can cut virtually any material, guillotines are limited to certain types of thin plastic and very thin metal. The advantages of using a guillotine lie in its cutting precision and quality, speed of operation and possibility to cut very small pieces. The CSP and CSM are the same guillotine fitted with either a blade for plastic (CSP) or metal (CSM).

	CSP	CSM	CSC
Size - LxWxH (mm)	530 x 380 x 240 (21" x 15" x 9.5")	530 x 380 x 240 (21" x 15" x 9.5")	240 x 150 x 120 (9.5" x 6" x 4.5")
Max. cutting length (mm)	320 (12.6")	320 (12.6")	n/a
Max. material thickness (mm)	Plastics	n/a	3 (1/8")
	Metals	n/a	0.8 (1/32")



The CSC is a special corner cutting guillotine, featuring in option many different corners.










CO₂ Laser parameters for:

LS100, LS100Ex (40 W)



This document provides a base of engraving parameters to be used on Gravograph laserable materials. They are indicative values that can be subject to modification, that are recommended by professional engravers and have been tested and verified for the LS100Ex & LS100 40 W.








Plastics Laser	 %	 %						Dpi	Thickness	Comments
	Power	Speed	Passes	Focus	Refocus	Air	Type			
Gravoply™ Laser	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	80%	30%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	28%	1	-	Before	yes	Cutting	500	1.3mm (.050")	
Gravoply™ Ultra	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
	100%	10%	1	-	Before	yes	Cutting	500	2.4mm (3/32")	
Gravoply™ 2	10%	100%	1	-	Before	no	Vector	500	-	
	50%	100%	1	-	Before	no	Raster	500	-	
Gravoglas™ 1	80%	40%	1	-	Before	no	Vector	500	-	Subsurface engraving
	80%	40%	1	3.0mm (1/8")	Before	no	Raster	500	-	Subsurface engraving
	100%	18%	1	-	Before	yes	Cutting	500	1.5mm (1/16")	Keep the plastic film on
	100%	10%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	Keep the plastic film on
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	Keep the plastic film on
Acrylic	30%	100%	1	-	Before	no	Vector	500	-	
	60%	100%	1	-	Before	no	Raster	500	-	
	100%	8%	1	-	Before	yes	Cutting	500	3.0mm (1/8")	
	100%	5%	1	-	Before	yes	Cutting	500	5.0mm (.20")	
	100%	1%	1	-	Before	yes	Cutting	500	10mm (.40")	
Gravotac™ Exterior	50%	20%	1	-	Before	yes	Cutting	500	0.8mm (.030")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
Flexilase™	10%	100%	1	-	Before	no	Vector	500	-	
	30%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	100%	5%	1	-	Before	yes	Cutting	500	0.25mm (.01")	
Stickalase™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	Gravogrip advised
	20%	30%	1	-	Before	yes	Cutting	500	0.09mm (.004")	
Gravostrat™	50%	60%	1	-	Before	no	Vector	500	-	
	100%	60%	1	-	Before	no	Raster	500	-	
Rubbalase™	100%	20%	1	-1.5mm (-1/16")	Before	no	Vector	500	-	
	100%	20%	1	-1.5mm (-1/16")	Before	yes	Raster	500	-	
	100%	5%	1	-	Before	yes	Cutting	500	2.2mm (.087")	

The purpose of this document is to help each engraver get an idea as to how to engrave on Gravograph laserable materials.

The parameters are sorted by product range. Every material can have up to 3 different types of engraving process:

- Vector, for lightweight linear tracing
- Raster, for heavy marking
- Cutting

Some materials may not be engraved with a certain type of engraving process: if the specific type is not in the grid of the material, then it's most likely that it we do not recommend this engraving method on the indicated material.

Metallics Laser	 % Power	 % Speed	 Passes	 Focus	 Refocus	 Air	 Type	Dpi	Thickness	Comments
Gravolase™ Metallics	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	
	70%	40%	1	-	Before	yes	Cutting	500	0.5mm (.020")	
	100%	25%	1	-	Before	yes	Cutting	500	1.6mm (1/16")	
Metallex™	10%	100%	1	-	Before	no	Vector	500	-	
	40%	100%	1	-	Before	no	Raster	500	-	All Metallex™ material surfaces
Gravoxal™	30%	100%	1	-	Before	no	Vector	500	-	All Gravoxal™ material surfaces
	50%	100%	1	-	Before	no	Raster	500	-	All Gravoxal™ material surfaces
AlumaMark®	30%	50%	1	-	Before	no	Vector	500	-	
	30%	80%	1	-	Before	no	Raster	500	-	
DuraBlack®	20%	80%	1	-	Before	no	Raster	500	-	

TECH TIPS

Floating Pin Table Cutting - When using a floating pin table, place an aluminum plate under the strips to avoid laser reflection to prevent engraving under the material.

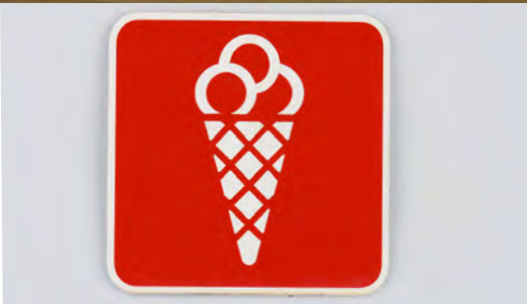
Gravogrip™ Raster - Use Gravogrip™ when engraving on thin materials as they can have uneven surfaces.

- Avoid using too much power when engraving to prevent damage to the Gravogrip™ plate.

Nb : in case of unexpected behavior during the engraving process, please refer to the machine's User Manual for troubleshooting.

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